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C. J. L. H.

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

DECEMBER 15, 1950



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SEASON'S GREETINGS

And our very Best Wishes for another prosperous year.

Prospects for the coming year are very bright in spite of the rather unsettled conditions and the current inflationary trend. Operating is more difficult and costs are higher, but these are offset by the strong demand.

The short supply of Roses is unfortunate, but our industry can maintain sales volume and net profit earnings by more aggressively promoting the sale of other Ornamentals, Perennials, Peonies, Dahlias and other Bulbs. Our Spring Trade List will carry hundreds of items which are in strong demand and are offered at attractive prices.

I and my co-workers here at Mount Arbor thank you for your business and wish you a Happy Christmas and the best of health and good cheer all the New Year.

George L. Welch, Vice-president



Mount Arbor Nurseries

Shenandoah, Iowa

"One of America's Foremost Nurseries"

Since 1875

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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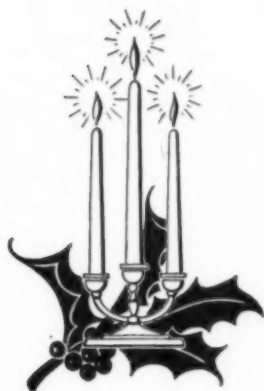
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Mail copy to arrive at Chicago by that date—no later!



May Your Christmas Be Merry
and the New Year Prosperous

We of the Burr Organization wish
to express our appreciation to the
trade for the patronage extended us
this past year and hope that we may
continue to merit your confidence.



C. R. BURR & COMPANY, Inc.

Manchester, Conn.

"Growing Since '98"



AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

MERRY CHRISTMAS!

As another yuletide approaches, nurserymen look back upon a year that has generally been the best they have experienced. The hazards of the weather were felt in some areas, and perhaps the sudden drop in temperature last month may prove to have been seriously damaging in some parts of the south. Demand continued strong for most items, particularly in ornamentals, and the continuation of home building at a high rate keeps the order books full. The high volume of sales has prevented supply from catching up, and scarcities continue here and there. So nurserymen generally enter into the holiday season with full reason for the customary rejoicing.

Reflecting the nurserymen's good year, this magazine has continued its progress, not only in a business way, but in its coverage of trade news nationally and in its presentation of helpful material, both through the increased cooperation and interest of the readers. To them all the staff of the American Nurseryman offers wishes for a Very Merry Christmas!

DIFFERENT CONDITIONS.

Noting that government controls have already been set on some business operations and on some commodities, the nurseryman who is planning for the season ahead may find difficulty in charting his course. Frenzied buying of merchandise, all the way from department store notions to farm machinery, which occurred last summer after the beginning of the war in Korea, was followed by a decline in mercantile activity as the public realized the feared scarcities were some ways off.

Soon after the government began to impose curbs on commodities, so as to add to government stock piles and prepare for military orders, it found that a severe disruption in manufacturers' operations ensued because military orders were not nearly sufficient to offset the decline. So the National Production Authority, at the end of November, eased restrictions on civilian use of aluminum for companies which would suffer undue and exceptional hardship under the limitation.

The Mirror of the Trade

In making his plans, the businessman of today must remember that government controls now are anticipatory, based upon somebody's guess at Washington, and may be changed. They are not the same as the controls in the late war, when restrictions were dictated by necessity and demanded by the tremendous size of military operations all over the world. Another war may put us in the same predicament, though we all hope not, but at present the military orders are in large part for preparedness. There is not the constant huge destruction of materiel in warfare that took place on many fronts at once.

Shortages there will be, and hardships will develop. But too much forehandedness and inventory buying may result in losses, or at any rate be unnecessary. The prospect calls for levelheaded management to keep business progressing on its course with as moderate fluctuations as possible.

CURBS ONLY SHIFT BUYING.

The curbs on consumer credit recently ordered by the Federal Reserve Board are more likely to have a dampening effect on consumer spending than to reduce it, according to the United States Department of Commerce in its recent monthly survey of current business.

Estimating that the board's restriction will curtail outlays for consumer durable goods, such as automobiles and household appliances, by two and one-half to three billion dollars a year, the department predicted that a combination of rising incomes and a buyers' shift to unrestricted items probably would offset the reduction.

The consumer demand for merchandise has eased in the past two months, according to the survey, because "the frenzied buying which developed during the summer months has now abated and has been followed by a more orderly flow of both consumer and business purchasing." The major factor in the change, according to the department, has been realization that the fears of immediate shortages of civilian goods were unfounded.

The basic trend in economic activity is still upward, according to the department. Production has expanded, while military buying has not yet been large enough to pinch the sup-

ply of civilian goods. At the same time, consumer demand is still substantially above what it was before the Korean war began.

PLANTING WEEK.

Autumn is the time when most nurserymen welcome a stimulant to sales. So the observation of "Plant Connecticut" week by the nurserymen of that state during the week of October 15 turned out quite satisfactorily to everyone concerned. The state association obtained excellent publicity in the newspapers, and some local nurserymen did likewise. A score or more of the latter ran special advertisements. Some kept definite records, which indicated an increase in number of sales and in total volume.

Connecticut obtained initial publicity last January in the "Plant America" program, and the live interest of leading nurserymen in that state has undoubtedly enhanced results from "Plant Connecticut" week.

Other states are following suit, and the nurserymen in still other localities could profitably do so. One may jest about promotional weeks, but there is no doubt about the emphatic success of National Flower week last month, reflecting the promotional efforts of florists most noticeably at the local level this year.

Whether a planting week is desirable in the early months of the year, to add to the already heavy spring rush, may be a debatable question, but its utility in increasing sales in autumn can hardly be questioned.

AIRPLANE DUSTING.

Interested by reports of the use of airplanes in agriculture, a nurseryman would like to know the experiences of any reader who has used this method of dusting or spraying ornamentals or fruit tree stock. Possibly it has been tried by some nurseryman in the sections where the application of fungicides and insecticides by airplane are more common. The editor will appreciate any information sent in on this subject.

M. N. GRANZEN will conduct a business under the name of Pendale Nurseries, at 450 Washington road, Mount Lebanon, Pittsburgh, Pa.

South American Cities and Gardens

By Joan L. Kilner

In South American cities one is struck by the curious blend of the old and the new. Most of the coastal cities were founded during the sixteenth and seventeenth centuries by Spanish and Portuguese conquerors, further colonized in the next two centuries by immigrants from Europe and developed industrially in the twentieth century. One is impressed by the vivid contrast between wealth and poverty; there seems to be no middle class. And this is as true of architecture and landscape plantings as it is of everything else. So history and economic conditions are in a large part responsible for the South American landscape.

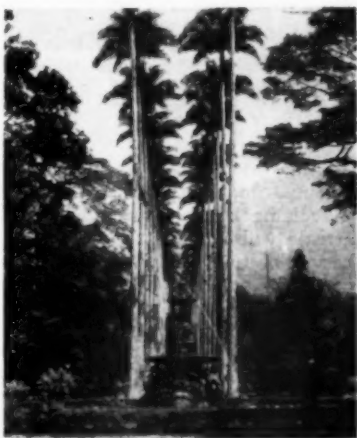
Naturally, the landscape is further a product of climate. When one crosses the equator, seasons are reversed, and so on my recent trip around South America in October and November, it was spring instead of fall, over much of the continent. Even in the cooler sections most plants were in full foliage and bloom. Traveling down the east coast at this season, one finds that the climate is warm or hot and humid at Rio de Janeiro, and cool, in fact, often chilly and sometimes rainy, at Sao Paulo, Montevideo and Buenos Aires. It is warm, dry and windy on the Argentine pampas and cold in the lakes and Andes mountains of Argentina and Chile, en route to the west coast. Up the west coast, one finds cool, sunny weather at Santiago and Vina del Mar, and cool, cloudy weather all the way up the rest of the west coast, even at the equator, nearly to the Panama Canal, where it is hot and humid.

But in almost every city on both east and west coasts, certain features are common to the landscape, such as old, narrow streets closely lined with low, flat, cream-colored, plaster-covered adobe buildings; new, wide tree-lined avenues; new, white buildings of splendid modern architecture; both exquisitely and monstrosously planted public squares, and small, densely planted yards in the residential districts, which are invariably surrounded by walls, fences and hedges, which hide a good deal of South America from the casual sight-seer's view, as do the iron or bars or shutters on the windows.

Rio de Janeiro.

Without a doubt, one of the most beautiful sights in the world is the

city of Rio de Janeiro as seen from a ship entering its harbor. Capital city of Brazil, a country which occupies nearly half of the South American continent, Rio presents an awe-inspiring picture of architectural splendor in a spectacular natural setting. A detached group of mountains, said to resemble a sleeping giant, imposing wooded heights, rich green hillsides of tropic vegetation and gray rocks form a semicircular background to the alluvial plain on which the city is built. Spurs of mountain ranges project into this plain nearly to the bay, forming picturesque valleys in the midst of the city, which is largely crowded near the bay, though some of the wealthier residences are up in the hills. The famed Sugar Loaf moun-



A vista through an avenue of royal palms in botanical garden at Rio de Janeiro.

tain, that can be ascended by cable car, rises 1,250 feet out of the sea at the entrance to the bay, while the 2,300-foot Corcovado, which is climbed by a winding mountain road in woods abloom with golden-yellow flowers on the acacia trees and on which has been erected a towering statue of Christ, partly divides the city and dominates the panorama of buildings, hills, 106 harbor islands and the bay.

The narrow streets of the old part of the city, which was a fortress and naval base of the French in the sixteenth century until captured and developed by the Portuguese, are parallel and cross at right angles and enclose blocks of unequal size. The oldest buildings are one or two

stories high, of severely plain Portuguese colonial design, with heavy stone walls and tile roofs. But many of the buildings, especially government ones, suffer from the old Portuguese ideal of being crowned with every possible ornament—spires, domes, cupolas—until they are monstrosities. Toward the end of the nineteenth century, French and Italian styles prevailed, while the newest buildings are tall and of ultra-modern architecture. Unique in design of Rio's modern edifices is that of the Ministry of Education. On the north side adjustable louvers, which form an everchanging pattern throughout the day, keep out the hot sun from the glass behind them. On the south side, where the sun strikes only in the early morning and late afternoon, the facade is all glass. Like many other new buildings here, this one is erected on stilts to provide an open yet protected entrance.

Beauty Spots of Rio.

In recent years large sums of money have been borrowed and spent to pave new avenues and widen old streets. The city has under way a program to beautify its center; plazas have been exquisitely planted and decorated with bronze statues and marble fountains. Along the Avenida Rio Branco the intricately designed black and white mosaic sidewalks, in the Moorish tradition, form exquisite carpets under the shade trees planted down each side of the street. Some of the mosaic designs are merely geometric, while others form butterflies or cartwheels. One sees skilled workmen keeping these in constant repair. It is common to see white sidewalks broken with black tile design in other parts of the city, but less elaborate.

World famed are Rio's Copacabana beach and its 5-mile promenade of palatial apartments and hotels of amazingly splendid modern architecture, not at all bizarre and not cheapened with neon-lighted signs, as are many of those along Miami Beach. Rivaling the architecture along the Copacabana are the residences of the wealthy in the suburbs surrounding Botafogo bay. For twenty miles the Avenida Beira Mar rims the bay and is completely lined with broad walks and shade trees along its entire length. On one side are the mansions of the wealthy, many literally covered with bougainvillea. This



Mosaic sidewalks and shade trees line the Avenida Rio Branco, one of the main avenues of Rio de Janeiro. The old buildings of ornate Portuguese architecture, in right foreground, contrast vividly with the more modern edifices.

area was entirely leveled by blasting out rocky hills. Where there are no buildings, these areas have been filled in with formal gardens.

In another section of the city the 2-mile-long Canal do Mangue is bordered with royal palms and parallel roads. There are no buildings here. The area was formerly a swamp. So beautiful did Brazil's emperors think the royal palms that they tried to monopolize them by prohibiting their planting by anyone not of royal blood. But bootleggers sold seeds, and everyone who could obtain some planted them; so the royal palms are everywhere in Rio de Janeiro. The original "mother" of these palms, imported from the West Indies over 150 years ago, has been one of the features of the botanical garden.

Among the public places of horticultural interest at Rio is the 2,000-acre botanical garden, or Jardim Botânico, started in 1808, which is noted for its transverse avenues of royal palms, *Oreodoxa regia*, and its ponds covered with *Victoria regia* water lilies of 21-foot circumference. The garden contains over 6,000 species and varieties of plants, including the world's finest display of tropical flora classified for study, a herbarium, an aquarium, a library and a museum. The Passeio Público, fac-

ing the waterfront, is a small garden dating from 1783, and the Jardim d'Acclamação is distinguished by its artistic walks and masses of shrubbery. The Quinta di Boa Vista, formerly the emperor's private park, is noted for its specimen trees.

Trees of Brazil.

Brazil is named for the brazilwood tree, a native of the East Indies. It has feathery foliage and thorns on its trunk and shoots. Its red wood is used for lumber and dye. Among the most valuable of Brazil's native trees are the jacarandas, from which come rosewood; Parana pines, from which come the country's chief wood for export, and imburas, whose wood is used to make expensive furniture. The wood of the Brazil cedar, not a conifer, is used for cigar boxes and termiteproof furniture. Lavender-blue blooms crowned the jacarandas in many cities and towns in Brazil, Argentina, Chile and Peru in October and November, and whole avenues of jacarandas were in full bloom at Lima, Peru. Common to Brazil and farther south are the araucaria trees, their silhouette resembling candelabra, with foliage of thick bushes of needles. Near Petropolis and Sao Paulo, especially, tree ferns form undergrowth to araucarian forests. Also to be found in Brazil are

the timbo, the various plants from which rotenone is extracted, and castanha, which is not cultivated, but from which Brazil nuts, or niggertoes, are collected.

Many kinds of fruit trees are grown in Brazil. Navel oranges were introduced to California from Baia, Brazil, but groves near Rio and Sao Paulo are troubled with triesteza, a root disease. Small, thick-skinned lemons are grown. Tangerines, which originated in China, are cultivated under various names. Grapefruit is little known, but turanga, of small commercial value, is often mistaken for it. Some grapevines are cultivated, but many suffer from fungus infections.

Most medicinal plants are collected in Brazil, as are hundreds of varieties of orchids. Rubber plants are a major crop. And, of course, Brazil is best known for its coffee trees. About 2,000 trees on six acres are cared for by one worker. Weeding is the main problem in growing this crop. Weeders are paid a fixed price per thousand trees for weeding. Pruning is done by traveling gangs of experienced workers. Fertilizer is expensive; so is little used. Incidentally, they do drink "an awful lot" of coffee in Brazil. To North American tastes it is extremely strong and thick, and one almost believes he is tasting ether fumes after swallowing it. Most of the South Americans drink their demitasses with the cup half filled with sugar cubes or as *café com leite*, which is with half warm milk.

The true mimosa, or sensitive plant, is native to Brazil. It is the bane of gardeners who have lawn areas near these plants, because when disturbed the pennules fall, then the leaves, and the stalk droops, leaving the grass looking as though it were covered with weeds. Roses, cannas, callas and crotons are popular for park plantings. Hibiscus is common for hedges. The parrot bush, a species of *euphorbia*, is often seen in gardens at Rio and Sao Paulo. Another species called *papagaio*, a name given to many other bright-colored flowers in Brazil, has big, red, star-shaped flowers, of twelve to sixteen inches in diameter, and narrow reddish leaves. Many trees and flowers are much larger in this tropical area than in colder climates.

Quitandinha and Petropolis.

While the mean temperatures at Rio are supposed to range from 68 to 80 degrees, it often seems and even is much hotter, for the relative humidity is high. Rainfall averages

about forty-four inches a year; so there are large swamps and wet areas in and around the city, especially in the slum and squatter sections, where the poverty is almost indescribable. To escape the summer heat and humidity, December through February, wealthier residents have homes about forty miles inland up in the hills at Petropolis, where the dethroned Portuguese emperor's summer palace still is kept intact, or they vacation at the fabulous resort of Quitandinha.

This hotel, for some 1,500 guests, and its grounds look like what one sees in Technicolor musical extravaganzas filmed in Hollywood, but rarely finds in real life. The huge white hotel, with its brown roof and trim, is set in gently rolling hills and surrounded by a man-made landscape of exquisite lawns and gardens that were blooming in mid-October with roses, lilies, poppies, petunias and other plants reminiscent of northern California. Guests may float in flower-bedecked boats over the flower-strewn lagoons in front of the hotel.

At Petropolis, originally a farming village, the homes are built on hill-sides, with steep, rocky terraced gardens filled with brilliant blooming plants, again similar to some of the landscape in northern California. At this season hydrangeas, shrubs and South African lilies are also com-

mon. There are many villas and wide flower-bordered streets. A partly beautiful tree here, a large specimen of which is at the emperor's palace, is the citrus.

Santos and Sao Paulo.

Not far south of Rio de Janeiro is Santos, the big coffee port. Besides the coffee exchange, the city boasts a remarkable collection of native orchids. Most of the city is of commercial buildings, but some residential sections extend across alluvial plains and line the beach. Bananas are a big crop in outlying areas. The temperature averages about 70 degrees and the rainfall about seventy-seven inches a year.

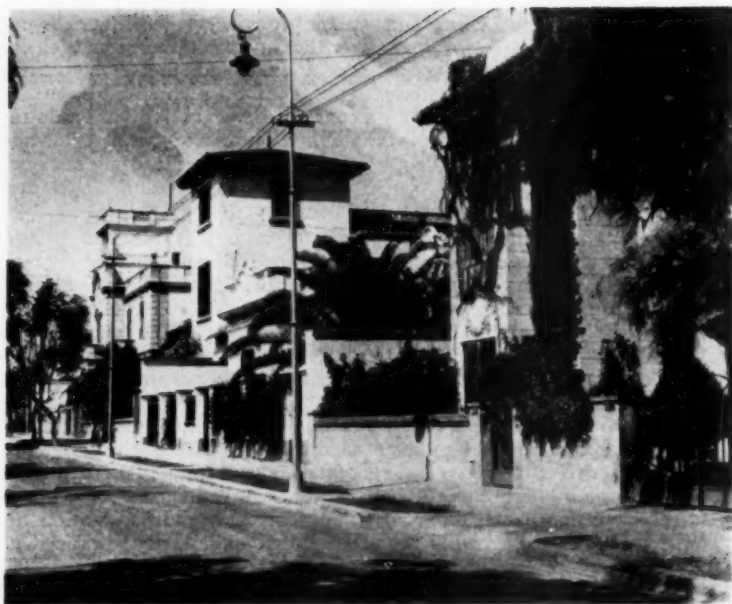
An hours' drive or more over winding mountain highways, often up in the clouds, is Sao Paulo, said to be the world's fastest-growing city, building licenses being issued at the rate of over thirty-five per day. The city is called the Chicago of South America. But other than being Brazil's industrial center, it bears no physical resemblance to its North American counterpart, for Sao Paulo is a clean, smokeless, sootless city, as Brazil has no coal, having hydroelectric power. While many sections of South America's metropolises are filthy slums and crowded old commercial districts, there is not the black coal dust of industry to gray or blacken the buildings or affect

plant growth. Perhaps that accounts for the way street trees seem to thrive down there, though they sometimes appear to be planted right in the concrete sidewalk. At Sao Paulo the soil is a red or red-purple color and contains much humus. It is sticky or slippery when wet and a red dust when dry.

Sao Paulo was founded by the Jesuits in 1564 and was the scene of the declaration of Brazilian independence in 1882. Its modern industrial boom has taken place in the past twenty-five years. The city is situated partly on an elevated open stretch of tableland and partly on lowland bordering a river. In the center of the city is the Triangulo of tall office buildings, some of fine white Carrara marble. Opposite a handsome new railroad station has been planted the Jardim du Luz, with colorful formal flower beds. The white marble palace where the declaration of independence was signed is now the Ipiranga museum, housing a collection of native flora, and the Parque do Estado contains a collection of orchids from all parts of Brazil. A new municipal market covering 27,000 square meters boasts fluted pillars and stained glass windows and has sections devoted to the sale of fruits, vegetables, flowers, plants, meats, birds, fish and groceries, with telephone service to each booth and a pumping system to wash



North American landscape nurserymen would be appalled at the sight of a design and planting such as this South American city plaza. But overornamentation is as common to some of the plantings as it is to the old buildings.



One of the modern residential sections of Lima, Peru. The small, densely planted, walled yards are typical of all suburban South America.

out the market daily. Surrounding the commercial district are the blighted areas of old residences. The newer residential districts, located on slight elevations overlooking the business center, have avenues of blue-blooming jacarandas.

There is much new construction under way, especially of large homes and luxury apartments. Today suburban residential architecture at Sao Paulo, as in most South American cities, runs riot from Spanish colonial to Moorish-Portuguese, Turkish, French, Greco-Roman, English Tudor, Italian, ultramodern, North American colonial and ranch style, with no two houses ever seeming to look alike. While lack of yard space to give the home a beautiful setting is often a bane of North American landscapes, it is the rule for South American suburban residences, which are located extremely close together. Yards are small even around most of the immense mansions, and while the yard or garden is at the front of the house, it is always enclosed by a wall that hides most of it from the view of passers-by. In some residential sections of Sao Paulo the law requires the owner to have a living hedge at the front property line, but this is planted inside the wall. Most of these hedges are of tall shrubs or trees that are kept well sheared. Topiary work is common both on hedges and specimen plants everywhere in South American cities. Except for a few slender, ornamental, often flowering trees, artistically placed near

the house or beside the wall, the gardens are usually planted with low, sheared shrubs, cacti and other succulents, rosebushes, strelitzias, callas, petunias, cannas and other flowers. There is little lawn area. There is a grass with hairs on it, catinguciro at Sao Paulo. Railroad embankments are covered with turquoise-blue convolvulus.

Industrial Landscaping.

On the outskirts of the city, quite separated from the residential districts, is the new industrial area. Small homes for workers dot some of the landscape, and they have sprung up before roads could be put in to connect them to the highways. The new factories, many bearing the names of well known North American firms, are mainly 1 or 2-story concrete buildings of solid, ultramodern design. Some have large glass windows, while others appear to be windowless, as light enters from windows slanted into roofs instead of cut into the side walls. Though the homes are walled in, some of the factories are only fenced in, but most have no protective enclosure. Examples of fine industrial landscaping are numerous. While home gardens are densely planted and present a rather formal appearance, by usual North American standards, the contrary is true of industrial plantings. They never appear overdone, usually being quite simple in design and using a small selection of kinds of plants, permit-

ting ease of maintenance. One rayon factory, a large white, 1-story building built on a hill, is surrounded by rolling lawns broken by small plantings of low shrubs and flowers to provide color.

The City of Roses.

A 2-day journey southward by boat brings one to Montevideo, capital of Uruguay, a country where there is no income tax, the government deriving its income from operating various kinds of businesses. Montevideo claims to be the cleanest city in the world and is called South America's city of roses. There is scarcely a home, large or small, rich or poor, whose yard is not planted with roses of some kind, bush, tree or climber. Roses, especially tree roses, are very popular in South America, and at Montevideo ramblers spill over walls and fences in great profusion, even in the poorer districts of the city. The municipal rose garden, located in the suburbs, is most artistic and contains over 800 varieties. It is largely enclosed by a fencelike or cagelike metal structure adorned with cupolas, and roses have been trained to climb and twine over all of it, so that the garden appears to be enclosed by a wall of roses. Specimen bushes and standards, labeled in Spanish, are planted in variously shaped beds inside and around it. At rose time even the cemeteries of Montevideo are worth a visit to see the blooms.

There are numerous plazas and parks at Montevideo. The main square is distinguished for a uniform and nearly completed line of colonnades in front of the buildings surrounding it. The city's buildings are chiefly of brick and broken stone covered with outer plaster and stucco, of one, two or three stories in height, with flat roofs, usually surmounted by a square tower called a mirador, and no chimneys. The roofs, called azoteas, are used for domestic purposes or gardens. The older city homes are 1-story, Spanish colonial style, and look as if they have been cut off at half height at their top balconies. The living rooms are grouped around patios filled with subtropical trees and flowers. Many of these homes are overornamented; so they resemble fancy birthday cake icing. Those of the poorer class live in huts of corrugated iron, and, as soon as they build a better home, they go in for ornamentation on their houses in a big way.

The suburbs are noted for their

[Continued on page 54.]

Minnesota Association's Twenty-fifth

Celebrating its twenty-fifth meeting, although organized in 1927, the Minnesota State Nurserymen's Association held its best convention in attendance and in program at the Dyckman hotel, Minneapolis, December 4 and 5.

Three top officers of the American Association of Nurserymen addressed one session, and several excellent speakers appeared at another. The banner "Plant America" displayed in the hotel lobby betokened the public relations program being undertaken in the state.

Harold Reid, Holm & Olson, Inc., St. Paul, finally gave up the office of treasurer, which he had held since the inception of the organization, even last year when he was vice-president, and was elected president. W. A. Coupanger, Elmore Nursery, Elmore, was elected vice-president. The directors subsequently appointed R. N. Ruedlinger to hold the office of treasurer in addition to that of secretary, which he has efficiently filled for some years.

Terry Cashman, Cashman Nurseries, Owatonna, and Russell Zakariason, Homedale Nursery, Hopkins, were reelected to the executive committee, and Adolph Nitschke, Owatonna Nursery, Owatonna, was elected in Mr. Coupanger's place.

The holdover executive committee members are Gordon Bailey, J. V. Bailey Nurseries, St. Paul; Melvin Bergeson, Bergeson Nursery, Fertile, and Ken Law, Jewell Nurseries, Inc., Lake City, the retiring president.

Opening Session.

About ninety persons attended the luncheon that introduced the opening session, Monday, December 4, and another score or more came later for the informative lectures. President Ken Law commented on the excellent work of the program committee—Vernie Johnson, Gordon Bailey and Walter Niehaus—of the past three years, which had increased the annual attendance and helped raise the membership to nearly the 100 mark.

In a brief official message, he reminded the nurserymen that the coming year would be marked by partial mobilization of industrial production for military purposes, in contrast to the complete mobilization in many industries in the late war. There would still be automobiles, refrigerators, etc., for sale, and consequently greater competition for

the free money of the public than was the case before. Nursery stock would be among many things the public can buy—not among a few as before. Hence, sales efforts must be continued.

President Law asserted that many decisions must be made in the uncertain era ahead. The businessman could see no more clearly than the politician into the future. Mistakes may be made, but the nurseryman must be informed and must be ready to make those decisions which will be required of him.

Treasurer Harold Reid reported improvement in the association's



Kenneth B. Law.

finances. Receipts from dues were \$865 in the past year, and total receipts were \$1,272. Currently on hand were \$1,149.62 in cash and \$1,480 in government bonds.

Freedom Forum.

The recent development of Freedom Forums was related by Clarence Lindstrom, director of personnel and industrial relations for Swift & Co., South St. Paul, Minn. These are sponsored by the joint committee of the American Association of Advertising Associations and the Association of National Advertisers, which publicized war bonds and civic drives during the war, and Harding College, Searcy, Ark.

The objective of Freedom Forums is to identify encroaching socialism and communism, to point out the superiority of the American way of life, to supply data for that purpose and to insure enthusiasm for preserving the American way of life.

In this country socialists long since

gave up the possibility of attaining their goals through revolution, but seek them through evolution, or boring from within. The electric power industry is an example of what has been achieved in government paternalism. In European countries the list of examples is longer.

But their lack of success abroad only points to the superiority of the American belief in economic as well as political freedom.

The Freedom Forum program is set forth in a booklet which Mr. Lindstrom distributed for Swift & Co.

Northern Ornamentals.

W. R. Leslie, superintendent of the Dominion experimental station at Morden, Man., Canada, briefly described "Newcomers to Northern Ornamental Gardens" and showed colored slides of them and other views at the Morden station, which abounds in trials for such selections. Brief descriptions of the twenty-two newcomers are as follows:

Almey crab apple, a rosy bloom with glowing red flowers and persistent showy small scarlet fruits.

Strathmore crab apple, upright, fine-textured bush with purplish-red leaves. A foliage plant, but has maroon flowers and small red fruits.

V. C. 3 crab apple, coppery-red foliage. A hardy valuable substitute for copper beech and copper birch.

Prairie almond (*Prunus pedunculata* x *P. triloba* fl. pl.), shapely bush; exceedingly floriferous, pink, semidouble flowers with red eye at center. Reddish fruits into September.

Toba hawthorn (*Paul's Scarlet* thorn x *Crataegus succulenta*), double, long-lasting flowers, pink becoming deep rose-pink with age; bright scarlet, persistent fruits; vigorous large shrub with lustrous deeply lobed leaves.

Coral lilac (*villosa* x *reflexa*), a prestoniae with bold heads of radiant pink flowers.

Donald Wyman lilac (recent prestoniae hybrid by Dr. F. L. Skinner), a hardy, late, reddish variety that is notably sun-worthy.

Prairie Youth rose (a shrub hybrid carrying four species), tall bush bearing rich pink blooms freely in mid-summer and sparingly in early autumn.

George Will rose (a Skinner rugosa hybrid), to three feet with semi-

double deep pink flowers until autumn.

Prairie Wren rose (complex hybrid), compact bush; very floriferous for about a month; flowers double, rich pink.

Schubert chokecherry, deep purple foliage.

Tidy caragana (bud sport of *C. microphylla*), a ferny-leaved shrub which retains its healthy foliage late into autumn.

Manchurian Pink weigela, in the class of *Eva Rathke*, but full of hardiness.

Aurora false-spirea (*Sorbaria arborea* x *S. aitchisoni*—F. L. Skinner), large creamy-white spikes of fragrant flowers in late summer.

Manito pembina, or American cranberry bush (*Viburnum trilobum* var.), growthy bush, having branches arching under weight of large scarlet fruits.

Mongolian oak (*Quercus mongolica*), rosettes of neat leaves, clustered at ends of branchlets; foliage rich red in October, dropping in April.

Golden Buffalo berry (*Shepherdia argentea* var.), dense masses of sparkling golden fruits in winter.

Arcadia and Scandia junipers, green and blue-gray in winter; valuable low sun-worthy evergreens (Savin class).

European cranberry bush (*Viburnum opulus*), a compact shrub showy in winter with rich red bitter fruits.

Christmas hawthorn (*Crataegus durobrivensis*), attractive healthy bush to sixteen feet; flowers one inch; fruits large, pleasing dessert.

Sylviane mock orange (*Glacier* x *P. zeyheri*), rounded bush of medium stature; winter bark tawny-red; flowers double, sweetly fragrant, persisting.

Dropmore Scarlet Trumpet honeysuckle (*Lonicera hirsuta*-northern x *L. sempervirens*), hardier form of *L. browni*; showy vine; golden-red flowers June through September.

Best in Taxus.

Dr. L. C. Chadwick, of Ohio State University, explained that the list of "The Best in Taxus" he offered was a different list than that presented at the A. A. N. convention in July and that time would probably cause further revisions.

In the trials at Wooster, O., are 450 plants under ninety-six different names, besides twenty-four varieties grown from seeds or cuttings. Many are duplicates. The *taxus arboretum* is not only valuable to check nomenclature, but also to compare habits of growth and various other characteristics.

The list of the best was developed not only by observations at Wooster, but also from recommendations of nurserymen and a trade survey, as some types at Wooster are not yet of a size suitable for comparison.

At the outset Dr. Chadwick explained that the *baccata* type, on the border line in Ohio, would probably not be hardy in Minnesota. Indeed, he urged trials of the other types to ascertain their usefulness under northern conditions. Because of climatic conditions he listed secondary varieties in addition to the selected ones in each group.

Among creeping yews there is only one, *Taxus canadensis*, noted as secondary.

In low types, one to four feet, *Taxus baccata repandens* is selected for the spreading type with drooping branchlets. For dwarf, compact, rounded or globose, *Taxus cuspidata densa* is selected, with *T. cuspidata*

[Continued on page 44.]

DEMOUNTABLE FRAMES.

A simplified method of protecting broad-leaved evergreens, such as rhododendrons, azaleas and andromedas, is being used by Edward A. Thuem, owner of the Green Meadow Nursery, Harrington Park, N. J.

Two rows of steel stanchions marking the outlines of the growing beds are the only structural framework required. Each stanchion is embedded eighteen inches into the soil. One row of stanchions protrudes twenty-seven inches from the ground, while those in the opposite row have a height of twenty-one inches. Into the stanchions are slid panels of Masonite 1/4-inch Tempered Presdwood, which form the sides of the shelter. The panel ends overlap slightly to furnish a snug fit at each stanchion.

Mr. Thuem finds several advantages in his portable frame—speed with which growing plants can be protected against inclement weather; reasonable cost; easy assembly and disassembly, and compact storage for the Presdwood panels.

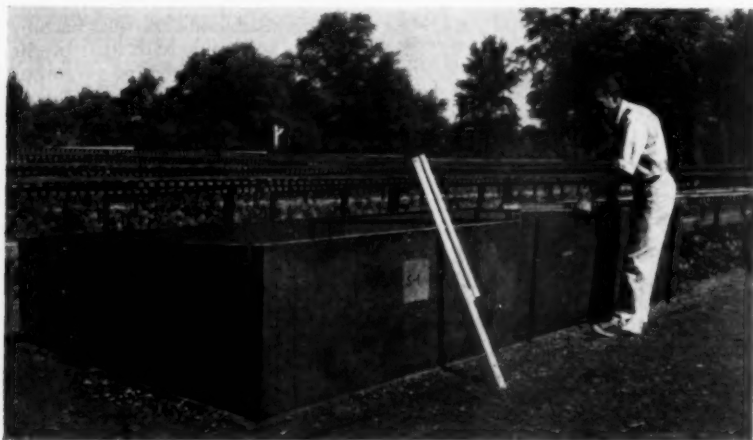
"This simplified portable frame," he states, "can be assembled or dismantled in the space of a short time and was primarily designed for plants to grow in open beds, where they have free circulation of air and, when necessary, can be completely enclosed, as in conventional permanent wooden frames.

"In summer lath shading can be put on the steel frames for protection against sun, and in winter, when the beds are completely enclosed, they can be covered with hotbed sash. Prior to having these frames, I had to transplant all my azaleas from outdoor beds into enclosed frames for safe wintering, whereas now I merely enclose the plants with the Masonite boards, which saves me considerable time and labor.

"The Tempered Presdwood is used because it is light and easy to handle, requires no prefabrication such as would be needed on cypress or other boards used in greenhouse work and is readily stored near the site of use."

Because the hardboard panels are highly moisture-resistant and tough, Mr. Thuem expects them to last indefinitely. He treated the surfaces with a clear sealer and the edges with aluminum paint. The panels rest on the boards forming the perimeters of the growing beds.

E. L. CHAMBERS, state entomologist, was reelected treasurer of the Wisconsin State Horticultural Society at its annual meeting, at Fond du Lac, last month.



Edward A. Thuem Placing Hardboard Panel Frames about His Azalea Beds.

Fall Meeting of American Holly Society

By Harry W. Dengler, Vice-president

Seventy-five members and guests attended the meeting of the Holly Society of America, October 26 and 27, at Swarthmore College, Swarthmore, Pa. Representatives were present from the District of Columbia, Virginia, Maryland, Delaware, New Jersey, Pennsylvania, New York, Ohio and Massachusetts.

The 2-day affair started the afternoon of October 26 with an informal tour through the famous Longwood Gardens, Kennett Square, Pa. The group enjoyed seeing many fine, large, old hollies and strolling about the grounds where fall foliage and flowers were at the height of their autumn brilliance.

Later in the afternoon the society was the guest of Nurseryman F. R. Furness, Upper Bank Nurseries, Inc., Media, Pa. The group walked through the beautiful and unusual nursery display grounds and had an opportunity to inspect a large variety of hollies and other interesting ornamental plants.

In the evening everyone assembled at Martin Hall, the Arthur Hoyt Scott Horticultural Foundation at the college, as the guest of Director John C. Wister, author and horticulturist. The society's president, C. R. Wolf, president of the New Jersey Silica Sand Co., Millville, N. J., presided. In his opening remarks, Mr. Wolf stated that in the days of ancient Greece it was an annual Christmas custom of the Greek business firms to exchange tokens of holly as expressions of appreciation and good will.

Miss Nancy Bowyer and Mrs. Marvin Howard, of Stevensons' Florists, Towson, Md., entertained the group with a demonstration and lecture on the uses of holly and other greens for Christmas decoration.

The meeting Friday, October 27, opened with a welcoming message by Dr. John W. Nason, president of Swarthmore College. Charles A. Young, Jr., Baltimore, Md., secretary-treasurer, reported that there are now forty-four sustaining and 242 regular members in the society.

Arboretums and Collections.

Reporting as chairman of the holly arboretum committee, Wilfrid Wheeler, Falmouth, Mass., stated that two new arboretums have requested aid in obtaining varieties and selections of holly. The Topeka State hospital, Topeka, Kan., is in-

terested in adding hollies to its present plantings for the enjoyment of its patients and citizens of the surrounding community. The Royal Botanical Gardens, Hamilton, Ont., Canada, have expressed an interest in planting English hollies in their great fruit belt area, but the arboretum committee members felt that little encouragement for success could be given to this proposal. So they suggested that a trial planting be made using types and selections of American holly.

Some disappointment was expressed by Mr. Wheeler that so few arboretums have experimented with or tested any of the evergreen hollies. One reason for this, he believed, was that few know where the more hardy types of holly may be obtained. He recommended that the society plan to have some central distribution place where arboretums might obtain good selections. This might place some burden on the organization chosen to do this, but a fee might be charged to cover expenses for such a service.

The arboretum committee expressed deep appreciation to those arboretums which are already sharing their cuttings and duplicate and surplus stock with others. It also thanked those members of the society for their kindness in donating plants and selections to those arboretums which had expressed a desire to add these items to their collections.

Mention was made of the fine private holly collections of Ambrose Brownell, Milwaukie, Ore., and Henry Hohman, Kingsville, Md. Mention was made, too, of the 100 or more ilex selections, named or numbered, which have been planted in permanent locations at the Morris Arboretum, Philadelphia, under the direction of Henry Skinner, curator. At Swarthmore College some sixty named or numbered plants of American, Chinese and European hollies have been established on the college campus by Dr. Wister. At the New Jersey agricultural experiment station, New Brunswick, where extensive holly investigations have been under way for some time, Dr. Charles H. Connors and Dr. Robert B. Clark reported that sixty-four hollies, exclusive of *Ilex opaca*, have now been planted in the station's permanent collection in its holly arboretum. These are ar-

ranged in systematic groupings. The collection will be greatly extended in the spring, when a large collection of selections of 15 to 18-inch *Ilex opaca* stock will be transferred from the station's nursery.

Red Mite Serious.

Dr. Clyde C. Hamilton, entomologist at the New Jersey station, reported as chairman of the holly insect committee that the southern red mite, *Paratetranychus ilicis*, continues to be the most difficult pest to control on holly. Holly orchards which are clean cultivated are, in general, more heavily infested than are those with a ground cover of weeds, grass or other vegetation. Possibly, Dr. Hamilton believed, the vegetative ground cover lowers the air temperature around the holly trees and may provide protective cover for predators of the spider mites. Several new sprays were applied for mite control in June, 1950. Most of these sprays have been tested by other workers on other plants and show considerable promise in controlling spider mites. No plant injury occurred with any of the sprays under test.

Holly leaf miners have been satisfactorily controlled by DDT sprays. It has been noted, however, that either the American holly leaf miner, or a similar species, has emerged in late summer and reinfested new growth. It would thus appear that this particular miner has two broods a year. Work needs to be done to determine whether this is a new species or merely a variation in the life cycle of the American holly leaf miner.

Holly Score Card.

Dr. Charles H. Connors, specialist in ornamental horticulture at the New Jersey station and chairman of the society's variety-selection committee, reported that, while test plantings at the New Jersey station are not now of sufficient size to warrant passing final judgment, yet it is definitely apparent that many of the early selections of American holly should not be recommended for further planting. These early selections were undoubtedly chosen, Dr. Connors believed, solely on the basis of one plant character, as, for example, fruitfulness. In making holly selections, the plant in its entirety must be considered. Tests at the New

Jersey station bear out this opinion.

In an effort to evaluate the usefulness of the various past and future named *opaca* selections, Dr. Connors' committee, in cooperation with the New Jersey holly research committee, has had printed a 5x8-inch holly description score card on which are recorded essential data relating to the characteristics of various holly species and their named selections. Dr. Connors hoped that discoverers of new holly varieties will use this card in recording the descriptions of their named selections. He said that it might be possible to work out a useful key to aid in the identification of the various selections from the data included on the score cards.

In a report by G. F. Gravatt, division of forest pathology, bureau of plant industry, United States Department of Agriculture, Beltsville, Md., chairman of the society's disease committee, it was stated that Dr. R. P. True, professor of forest pathology, West Virginia University, Morgantown, is investigating leaf discolorations of holly, but at this time there is nothing to report. Mr. Gravatt also mentioned that Dr. A. J. Plakidas, Louisiana agricultural experiment station, Baton Rouge, has been studying a new and apparently undescribed disease on *Ilex cornuta*, Chinese holly.

Just prior to luncheon, Dr. Wister extended greetings to the society and told of the history of the Arthur Hoyt Scott Horticultural Foundation, located on the campus of Swarthmore College, and explained its purposes, among which are the stimulation of interest and the extension education in the field of horticulture. The foundation is not an arboretum in strict interpretation. Rather, its horticulturists are growing plants which can be successfully used locally. Already some 1,000 plants and 4,000 named varieties are growing on the college campus.

Variation in Species.

In the afternoon H. Gleason Mattoon, consulting forester and holly nurseryman, Narberth, Pa., discussed the problems encountered in correctly naming the many varieties of the English holly. As an example of the present existing confusion, he cited instances where the variety *Ilex aquifolium ciliata major* is listed by nurseries in the east under six different names. He mentioned that on one occasion he purchased two of these plants from one nursery and received specimens of the Oregon holly grape instead.

Much of the confusion which ex-

ists in the nomenclature of the English hollies, Mr. Mattoon pointed out, is a result of the vast area of Europe and Asia to which this species is indigenous and to its inherent variability. The English holly is at home in the thin soils of the rocky fjords of western Norway and on the bleak capes of northern Scotland. Farther south it thrives on the chalky soils of England, the sandy loams of Brittany and the dry shales of Turkey, and it is also abundant at an altitude of 4,000 feet in the Swiss and Tyrolean Alps. The island of Corsica in the Mediterranean sea, the Caucasus mountains of Russia,



Paul E. Belcher.

the Black forest of Germany and the high mountain valleys of western China have little in common, geographically, yet English holly grows in all these places.

Great variations exist in the color of the twigs and in the size, shape and color of both the leaves and the fruit. These variations have been a basis for the cultivation of numerous types, many of which have been given varietal names. Undoubtedly, there have been several common or identical variations, any one of which may have been found growing naturally over the vast English holly region, that have been selected, named and propagated by different individuals. Over 600 names have been attached to the species *Ilex aquifolium* to identify so-called varieties. Many of these have since been dropped from usage, but there remain some 100 or more which may be found in catalogs and articles on holly. Some of these are, no doubt, duplicates.

Because of his futile efforts to find definite material on *Ilex aquifolium* in the United States, Mr. Mattoon has turned to the Royal Botanic

Gardens at Kew, England, for reliable information. He related that they have agreed to assemble a set of herbarium species *ilex* at Kew and to send them to this country, with the Morris Arboretum, Philadelphia, acting as the depository. It will be several months before this can be accomplished, but when the material arrives it will be of great value in working out the correct nomenclature of the English hollies.

In his closing remarks Mr. Mattoon suggested that the Holly society create a committee with authority to settle problems of holly nomenclature. This should be done in conformance with the requirements of the International Botanical Code.

Selection of Clones.

G. G. Nearing, nurseryman and rhododendron specialist, Demarest, N. J., spoke on his varied interests

[Continued on page 46.]

NEW YORK SPEAKER.

Members attending the 3-day convention of eastern nurserymen at the Hotel Statler, New York city, January 3 to 5, will hear Paul E. Belcher, vice-president and cashier of the First National bank, Akron, O., present his business forecast for 1951 at the luncheon January 4. The complete program schedule appears on another page.

For more than five years Mr. Belcher has written the Akron bank's monthly publication, "Business Analysis," which received nation-wide recognition last year when it was referred to in an editorial appearing in the Saturday Evening Post.

After his winning honors in chemical engineering in 1922 and graduating from Ohio State University, Mr. Belcher worked in an Akron bank while he studied law. He received his bachelor of law degree from the American Extension University in 1929 and his doctorate in law from the Lake Erie Law School in 1931.

From a clerk in the trust department, the bank promoted him to the office of secretary, not following its custom of having senior officers serve first as junior officers. Recognized by his associates as the answer man for all banking problems, Mr. Belcher is also the bank's economist and general legal counsel. He is also chairman of the Akron Metropolitan Housing Authority, which directs the building and renting of all public housing within Summit county, and a trustee and chairman of the Edwin Shaw sanitarium, a public tuberculosis hospital.

Pointers on Propagation

By James S. Wells

CUTTINGS IN COLD FRAMES.

There is practically nothing which a careful propagator cannot grow in a well constructed coldframe. This is particularly true in rooting cuttings, for the coldframe, if intelligently used, can produce an extraordinarily varied amount of plant material and in almost any desired quantity. To prepare a frame for cuttings, approximately six inches of topsoil should be removed down to the bottom of the sideboards. If the natural soil is on the heavy side or if there is any question of the drainage not being perfect, this should be taken care of by sump drains at frequent intervals. It is a good idea at this point to cover the inside of the frames with tar paper, because even in the best frames there are bound to be small cracks between the sideboards, and particularly for soft summer cuttings these should be eliminated. Tar paper tacked to the inside of the frames and taken down beneath the surface of the ground is by far the easiest and simplest method of doing this.

The frames should then be filled with six inches of rooting medium. We prefer a mixture of seventy per cent sharp sand, twenty per cent topsoil and ten per cent peat. We have found this mixture to be ideal for taxus and all forms of arborvitae, for boxwood, golden privet and Pfizer juniper. The mixture should be firmed into place and carefully leveled, watered down and left for a day with the sash on the frame.

Such a frame can be used over the greater part of the year for cuttings of different types and certainly can be used at any time when the ground is not frozen. Following the natural sequence of plant growth, the first batch of cuttings which would be inserted would be soft summer cuttings of flowering shrubs such as forsythia, weigela, hydrangea, etc. These can be taken in June or July, depending upon your location and the development of the plants. The cuttings should be taken from the current year's growth, which, while still in full growth at the top of the stem, will have begun to harden slightly lower down. Cuttings are usually taken from six to eight inches in length, with three joints or nodes to a cutting. Leaves are removed from the bottom joint and, if they are very large, perhaps are reduced in size on the top two joints.

Cuttings taken at that time of the year, when soil and air temperatures are high, may well respond to hormone treatments with powders of low concentrations. The cuttings should be inserted fairly close in the frames, with the leaves just touching, and, of course, should be firmed in well. This last is of paramount importance. I realize that other growers may not agree with this, yet I think there was a great deal of sound horse sense in the training which we received when I was an apprentice, in which we were required to pound the rooting medium for any type of cutting until it was as hard as a board. No doubt this was going to an extreme, but I think the idea is fundamentally sound.

Once a sash is completed, the cuttings should be well watered in and immediately covered with a heavily shaded sash. Summer cuttings of this kind will usually root within a few weeks. If the frame is not required for any later propagating, then the cuttings can remain undisturbed until the following spring, when they are lifted out for planting in the field. Or they can be carefully removed as soon as they are well rooted and heeled in an ordinary coldframe or a protected bed for overwintering.

Summer shrub cuttings can be followed by magnolias in late July and

August, and these should undoubtedly remain undisturbed in the frame once they are rooted. They should be lifted and planted out into beds very early next spring, before growth commences. Cuttings taken in September will be boxwood, taxus, arborvitae and juniper. Most of these cuttings will not benefit by hormone treatments and, therefore, have to remain in the frame for at least eighteen months. They will callus after being inserted in the frame and will root the following spring, but too late to be moved into the field or into nursery beds. They are best left undisturbed right through the next winter and lifted out early the following spring for field row planting. If the frames are urgently needed for additional propagation work the second winter, the rooted cuttings can be removed from the frames in the fall—that is, twelve months after being inserted—and can be heeled in a sheltered bed to release the frames for another crop.

Important points to remember in growing cuttings in frames are these:

1. Construct your frame well and make it as airtight as possible.
2. See that you have proper drainage and have a sufficient depth of well mixed sandy rooting medium.
3. Insert the cuttings at the right time and insert them firmly.
4. Check the frames daily, and this means winter and summer. In hot weather syringe two or three times a day. It is vitally necessary that this is done.
5. Heavy shading on the glass of



Prunus laurocerasus cuttings treated with hormone powder before being inserted. Note man shading frame with window glass paint.

the sash is usually necessary at all times except through midwinter. It is particularly necessary for soft summer cuttings and for the fall cuttings after they have rooted the following spring.

6. Weed regularly. You cannot root cuttings and grow weeds at the same time.

7. As soon as possible give air. Do not keep the cuttings tight in the frames after they have rooted.

FREEZE HITS TEXAS ROSES.

Rose growers in east Texas are still attempting to estimate the damage done by the sudden freeze on the night of November 10. After a long stretch of continued warm weather, the temperature dropped to 24 degrees.

Indication of damage to the plants appeared soon thereafter, but it varied greatly in different fields and also in different types of plants. White and yellow varieties seemed to have suffered the most. Pink and red roses seemed to withstand low temperatures better. Climbers and floribundas came closest to escaping injury, but even those were affected.

There was hope that some plants would grow out of the reported damage if the weather were favorable, this hope springing from the freakish weather which caused the damage—continued warmth, followed by the sudden freeze accompanied by cold winds. As time passed, however, some varieties seemed to become worse, while others had a tendency to grow out of the injury. Some fields appear to be more damaged than others because of the condition of the plants, their location, etc. The over-all extent of the crop loss will not be determined until later.

Other Storms.

The snow and cold weather which swept over the eastern half of the country on the week-end after Thanksgiving cut short the long autumn season, leaving landscape men with many orders remaining to be filled and growers of nursery stock with some of their digging to be done. The heaviest fall of snow was in Pittsburgh and vicinity, where it reached nearly thirty inches between November 24 and 29. Northern Ohio received nearly as much, and portions of Michigan, between fifteen and twenty inches.

On the Atlantic seaboard, high winds and heavy rain did considerable property damage in the northeast. Much tree wreckage was reported.

Freezing temperatures in the

southeastern states damaged the buds on camellias and azaleas from Charleston, S. C., down to northern Florida and caused some injury to the wood of tender plants. Even as far south as Miami, Fla., temperatures were not far above freezing.

AMEND QUARANTINE 37.

Amendments to quarantine 37, following the notice published last July and subsequent public hearing, are included in a revision of the quarantine and regulations effective December 5, 1950. These have just been published by the bureau of entomology and plant quarantine of the United States Department of Agriculture, in thirty-one mimeographed pages.

Quarantine 37 governs the entry into the United States of nursery stock, plants and seeds in respect to their possible pest risk. The amendments made during the past half year were made public in an earlier press release.

AMERICAN NURSERYMAN

COVER ILLUSTRATION.

Vaccinium Angustifolium* *Laevifolium.

Vaccinium angustifolium laevifolium, the lowbush blueberry, is a low, spreading, stoloniferous plant which is found growing as an undercover in wooded areas from Newfoundland south to Wisconsin, Illinois and Virginia. *Vaccinium angustifolium* is native to the northeastern part of North America. The species was introduced into cultivation in 1772.

The generic name, *vaccinium*, is the ancient Latin name of the blueberry. The specific name, *angustifolium*, refers to "narrowed leaf," and the varietal name, *laevifolium*, to "smooth leaf."

The lowbush blueberry seldom exceeds two feet in height and is often not more than half this size. The branchlets are fine and greenish or reddish-green in color. The variety, *laevifolium*, is a larger plant than the species, with larger leaves. The

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Season's Greetings

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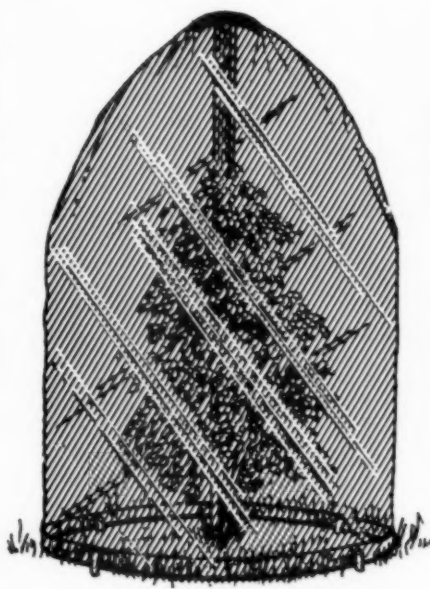
Best Wishes for 1951

SHRUBS

	Per 100	Per 1000
<i>Berberis thunbergii</i> , 3-yr., 15 to 18 ins.....	\$16.00	\$140.00
<i>Berberis thunbergii</i> , 3-yr., 18 to 24 ins.....	20.00	180.00
<i>Berberis thunbergii</i> , 3-yr., 2 to 2½ ft.....	25.00	225.00
<i>Forsythia spectabilis</i> , 3 to 4 ft.....	35.00	300.00
Hybrid Azaleas, list on request.		
<i>Kolkwitzia amabilis</i> , 3 to 4 ft.....	60.00	
<i>Philadelphus virginialis</i> , very heavy, 2 to 3 ft.....	40.00	350.00
<i>Philadelphus virginialis</i> , very heavy, 3 to 4 ft.....	50.00	450.00

FAIRVIEW EVERGREEN NURSERIES

FAIRVIEW, Erie Co., PA.



PLASTIC FILM SHRUB COVER
PATENTS PENDING

GREENE'S SHRUB COVERS

A NEW BOON TO THE NURSERY BUSINESS

DEALERS WANTED

Anywhere That Cold Weather Damages Shrubbery

- ★ PROFIT FROM SELLING SHRUB COVERS
- ★ PROFIT FROM SELLING MORE SHRUBS
- ★ PROFIT FROM HAPPIER CUSTOMERS
- ★ PROFIT FROM MORE CUSTOMERS
- ★ YOU DON'T HAVE TO SELL THEM—Your Customers Will Grab Them—Here Is the Shrub Protection They Have Wanted for Years — Now It's Yours to Offer.

These SHRUB COVERS were developed by Edmond G. Greene, owner of the Greene Nursery & Landscape Co., Memphis, Tenn. Their purpose is for winter protection of delicate shrubbery, such as gardenias, camellias, azaleas and many other plants, in landscape plantings or in nurseries. Greene's Shrub Covers are made of tough, long-lasting, airproof plastic film. Anchors are provided so that the shrub cover may be anchored to the ground, to avoid being blown off. The top is held above the top of the plant by an inside support. The color is green, and the covers are hardly noticeable, even in front-yard plantings. The plastic film permits ample sunlight, even if shrub has to be covered for months at a time. These covers are easy to put on and easy to remove. They can be folded up and stored away for future use and require hardly any storage space. They are so economical that for a few cents a year anyone can afford them, but no one can afford to do without them.

EACH UNIT IS DELIVERED READY FOR USE

ORDER EARLY FOR MORE PROFITS

	Per doz.	Per doz.
Size 36x36 ins. To dealer	\$14.50—Retail	\$24.00
Size 54x54 ins. To dealer	25.00—Retail	42.00
Size 54x72 ins. To dealer	29.00—Retail	48.00

Prices are F.O.B. Memphis, Tenn.

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P. O. BOX 3398 WHITE STATION

MEMPHIS 17, TENN.

PHONE 31-7258

FRUITS AND NUTS

	Per 10	Per 100
Apple, 2-yr., 11/16-in. cal., assorted varieties.....	\$ 5.00	\$ 40.00
Apple, 3-yr., 3/4 to 1-in. cal., assorted varieties.....	6.50	55.00
Apple, 5-in-1, 3-yr., 3 to 5 ft.....	12.50	100.00
Apple, 4-in-1, 3-yr., 3 to 5 ft.....	10.00	80.00
Peach, 11/16-in. cal., 5 to 7 ft.....	6.00	50.00
Peach, 9/16-in. cal., 4 to 6 ft.....	5.50	45.00
Belle of Georgia	Halehaven	Slappy
Brackett	J. H. Hale	Sullivan's Early Elberta
Elberta	Late Elberta	Triogem
Golden Jubilee	Red Haven	
Large Montmorency Cherry,	Per 10	Per 100
2-yr., 3/4 too 1-in. cal.....	\$12.50	\$110.00
1-yr., 11/16-in. cal.....	10.00	90.00
1-yr., 9/16-in. cal.....	9.00	80.00
Sweet Cherry,		
11/16-in. cal.....	11.00	100.00
9/16-in. cal.....	10.00	90.00
7/16-in. cal.....	8.50	75.00
Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt, Windsor, Yellow Spanish.		
Plum, 11/16-in. cal.....	9.00	80.00
9/16-in. cal.....	8.00	70.00
Burbank, Mammoth Gold, Red June, Shropshire Damson, Stanley, Prune, Wickson.		
Plum, 2-yr., 1 to 1 1/2-in. cal.....	16.00
Abundance, Burbank, Red June, Wickson		
Pear, 3/4 to 1-in. cal., 6 to 7 ft.....	10.00	85.00
Bartlett, Clapp's Favorite		
Pear, Kieffer, 1 to 1 1/2-in., 7 to 8 ft.....	11.00	95.00
3/4 to 1-in., 6 to 7 ft.....	7.00	65.00
Black Walnut, 4 to 6 ft.....	9.00	80.00
6 to 8 ft.....	12.50	115.00
8 to 10 ft.....	16.50	150.00
Papershell Pecan, 4 to 6 ft.....	12.50	115.00
6 to 7 ft.....	16.00	145.00
7 to 8 ft.....	18.00
American Filbert, 4 to 5 ft.....	12.50
6 to 7 ft.....	15.00
Thornless Boysenberry, \$4.50 per 100, \$40.00 per 1000; in lots of 3,000 or more, \$35.00 per 1000.		
Cumberland Raspberry, \$3.50 per 100, \$30.00 per 1000; in lots of 3,000 or more, \$25.00 per 1000.		

Write for Wholesale Price List on other sizes and varieties of Fruits, Nut Trees and Ornamental Plant Material.

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KOSTER NURSERY

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BRIDGETON, N. J.

Specializing in the propagation of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

EVERGREEN LINERS

Taxus—Flex Convexa—Hemlock
Heavy transplants and rooted cuttings.
Trade list mailed on request.

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VANDEBROOK NURSERIES

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Wholesale Nurserymen Since 1922

POTTED LINERS

FIELD LINERS

GRAFTS

(Bottle Certified)

HASLEY'S NURSERY'S

Freeport Rd. BUTLER, PA.

leaves of the species are small, being about one-third to three-fourths inch in length. The leaves of the variety are about twice this size. The leaves are finely toothed and are borne alternately on the stem. This is one of the few vacciniiums that have toothed leaves. With most species the leaves are entire.

The flowers are small and greenish-white and are borne in small clusters as illustrated in the cover picture. The flowers are produced late in April or early in May in the region around Columbus, O.

The fruit is a small bluish-black berry which ripens in mid to late summer, but it is hardly of importance from a landscape standpoint. Where the plants receive sufficient sun, there results a fairly pleasing fall foliage of a red color.

The lowbush blueberry is adapted to an acid, well drained soil, high in organic matter. Plants in ground cover plots at Ohio State University have been fairly satisfactory. They are planted in partial shade, in a soil into which considerable acid peat moss was incorporated and mulched with peat. Propagation can be accomplished by seeds, cuttings or division.

The lowbush blueberries are best adapted to use as undercover in partly wooded areas, and in a limited way as ground cover plants for partly shaded, rocky areas where the flowers and autumn foliage will provide a pleasing sight. L. C. C.

GUILTY OF FORGERY.

Frank Van Meter, Rogers, Ark., accountant and member of the city council and school board, entered a plea of guilty in Benton Circuit court to charges of forgery and embezzlement, November 13.

Judge Maupin Cummings deferred sentence until December 15, pending completion of an audit of the books of the Benton County Nursery Co., which until recently employed Van Meter as a book-keeper.

The charge against Van Meter was the outgrowth of alleged manipulation of payroll and other checks and the alleged forgery of check endorsements.

The amount of the alleged discrepancy has not been disclosed.

THE name chosen by William T. Straw and Charles Law for their new business at Carlisle, Ky., is the Blue Star Nursery. They will open for sales in the fall of 1951.



P. O. BOX 196, MONROVIA, CALIF.

PHONE
Elliott 8-1888

monrovia
Nursery Co.

Plant Notes Here and There

By C. W. Wood

Notes have been gathering on my desk for several months for a full discussion of *Aster frikartii*, including its history, but being uncompleted, this lengthy discussion will have to wait, because we have a hurry-up call for information on the plant's culture. I feel better qualified for the task than I often do, because I spent three or four pleasant years trying to fathom its idiosyncrasies, not entirely without success, when the plant was first introduced into this country.

The entire matter of culture could, I think, be summed up briefly as follows: This is one plant that you must learn to grow. That may not sound encouraging, but my experience here in northern Michigan and my observation in private gardens and nurseries make the statement imperative.

Generally speaking, one must start with a rich soil and keep it well supplied with moisture. From there on, procedure depends upon the purpose the plants are to serve. Those intended for cut flower purposes should be allowed to grow more or less naturally. The flower stems are then long and floppy, requiring support to keep them upright. The trouble with most garden plantings of *A. frikartii* that I have seen is that they, too, have been allowed to go their natural way, resulting in floppy plants of little garden value. On several occasions I have seen *A. frikartii* with its stems pegged down to induce the long shoots to throw side branches, an ignominious fate for such a lovely plant and quite ineffective. There may be better methods than the simple pinching of the shoots, as one does with the chrysanthemum; if so, I have not found them. Let me repeat that this is a plant that one must learn to grow before its full possibilities are known. It is not fully hardy this far north, and that, too, is a matter for individual trial. It is best grown from fresh cuttings.

If you find *A. frikartii* too difficult or too tender, you have a good substitute in *A. amellus* King George, with the same lovely color on an amiable hardy plant and stems to fifteen or eighteen inches in height.

Aconitum Napellus.

A Wisconsin reader, who says that he has been trying to grow *Aconitum napellus* for several years with-

out signal success, asks what is wrong with his growing schedule. He says, among other things, that he follows the usual advice to divide his plants every third year. I suspect that there is where he is making his first mistake.

One reads, for instance, in one of our most quoted authorities that monkshood should be "divided about every three years." In the face of advice to the contrary, I am convinced that it is a mistake to disturb the plants as long as they are doing well, and that should be for several years, perhaps ten or more. If one followed the advice to divide *A. napellus* every three years, he would

never know how lovely these monkshoods can be, for it takes them that long to produce a bountiful crop of flowers all during July and August. Dividing for propagation is another matter, but it was not included in the inquiry and will not be touched upon now. What the inquirer is interested in at the moment is the growing of *A. napellus* in the garden.

If I remember his section of Wisconsin, I suspect that the soil he has to work with is too light for best results. We have never been able to do well with any monkshoods here, because of our light soil. When one has that to contend with, all he can do is to import clay for his plants.

NO-DRI PROTECTIVE WAX EMULSION

Spray, paint or dip transplanted trees and shrubs to reduce loss of moisture and winter wind burn.

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RABBIT REPELLENT

Protect young nursery stock. Nonpoisonous. Applied by spraying or painting.

55-gal. drum....\$74.25 5-gal. drum....\$10.00
30-gal. drum.... 54.00 1-gal. can 3.00

BORER REPELLENT

Dogwood and many other ornamental trees should be protected from borer damage. Nonpoisonous. Simply brush it on as directed.

55-gal. drum....\$63.00 5-gal. drum....\$11.50
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Used extensively for twenty years to control scale insects, red spiders, lace bugs, aphids on ornamental nursery stock. Safe for summer use.

55-gal. drum....\$77.00 5-gal. drum....\$9.25
30-gal. drum.... 45.00 1-gal. can 3.25

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ORNAMENTAL STOCK

Abelia Grandiflora
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Ilex C. Rotundifolia
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Many other items.
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LINING-OUT STOCK

Our Fall, 1950, price list is now ready. If you are interested in any special items, send us your list NOW.

THOMAS B. MEEHAN CO., Inc.
DRESHER, PA.

NEW!

VIBURNUM CHENAULTI

Another evergreen hybrid of *Viburnum carlesii*.

More compact in growth than *Viburnum burkwoodii*

Flowers identical to *Viburnum carlesii*.

Liners 6 to 9 inches in plant bands.

Per 10 Per 100 Per 1000
\$5.00 \$35.00 \$325.00

FIELD-GROWN PLANTS

18 to 24 ins., B.B., \$17.50 for 10;
\$150.00 for 100.

2 to 3 ft., B.B., \$25.00 for 10; \$225.00 for 100.

Packing at cost

THE SIEBENTHALER COMPANY
CATALPA DRIVE DAYTON 5, OHIO

LILACS

On own roots.

Large plants, 5 ft. and up.

Charles X, William Robinson,
Pres. Grevy, Leon Gambetta, etc.

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AMERICAN ARBORVITAE, 10 ft.

An assortment of heavy stock
for landscaping.

RED LAKE RED CURRANTS, 2-yr. No. 1

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North-Eastern Forestry Co., Inc.
A. N. Pierson, Inc.

A complete line of well grown hardy plant material
Evergreens and Lining-out Stock

The matter of shade for monkshoods seems to be a moot question. It has been my opinion for a long time that our *A. napellus* does better in some shade than when given full sun as often recommended. And that opinion has been confirmed by observation of a large planting in quite full shade on a private estate in this section. Perhaps the planting would have had more sunlight if the only part of the property with the exact needs of monkshoods, which require a quite heavy soil that never dries out, had not been in the shade of maples. Be that as it may, the monkshoods were planted there several years before I knew the garden, and they have continued to grow in size and beauty through the years. That they have not been moved during the past twelve years is further confirmation of what has been said before on that phase of their culture.

Morina.

During a conversation with a group of commercial plant growers the past spring, casual mention of morina brought out the fact that no one present had ever seen a single type. Although none of the kinds that I know is likely to become widely popular, there is enough merit in them to warrant their use in gardens. It is said, for instance, by most persons who know about such matters, that amateurs, especially in this country, want plants that are self-supporting. If that is true, they should welcome all morinas that I have grown, because they apparently want no more than a well drained soil in full sun and, for the tenderer kinds, some protection in northern sections. The fact that the plants have long taproots would present to the commercial growers some difficulties which are not easily overcome. Morinas can be moved easily while small, however, and I suppose it would require no more than ordinary care to grow them in pots for a few months. I cannot speak from experience on this point, but judging from other taprooted plants, I should not expect them to do well for long under pot confinement.

The morinas are thistlelike plants, closely related to *cephalaria*, with their flowers whorled in spikes, resembling a spiny labiate, and the plants grow from two to four feet high in the species I have seen. They are old-world plants, growing from the Balkans to the Himalayas. Some of them are too tender for casual culture this far north.

The following are the best morinas that I have grown: *M. coulteri*.

[Continued on page 51.]

SPECIAL ROOT-PRUNED SEEDLINGS

No Extra Charge

All of our "Branched" Fruit Tree Seedlings, including Mahaleb, Mazzard and Myrobalan, herein listed are root-pruned in the seedling beds, which produces uniform, fibrous branched root systems. No extra charge.

This method insures a better stand of seedlings when transplanted and larger grades of trees with better root systems.



Mahaleb—Branched roots



Myrobalan—Branched roots

APPLES

	Per 1000
1/4-in. and up, br.....	\$30.00
5/16-in. and up, st.....	30.00
No. 1, 3/16 to 1/4-in., br.....	25.00
No. 1, 3/16 to 1/4-in., st.....	25.00
No. 2, 2/16 to 3/16-in., br.....	18.00
No. 2, 2/16 to 3/16-in., st.....	18.00
3/16-in. and up, liners.....	18.00

MAHALEB, MAZZARD and MYROBALAN

1/4-in. and up, br.....	28.00
No. 1, 3/16 to 1/4-in., br.....	26.00
No. 2, 2/16 to 3/16-in., br.....	20.00
No. 3, about 2/16-in., br.....	15.00

PEAR, Bartlett

	Per 1000
1/4-in. and up, br.....	\$32.00
1/4-in. and up, st.....	28.00
No. 1, 3/16 to 1/4-in., br.....	28.00
No. 1, 3/16 to 1/4-in., st.....	25.00
No. 2, 2/16 to 3/16-in., br.....	20.00
No. 2, 2/16 to 3/16-in., st.....	18.00
No. 3, about 2/16-in., br.....	14.00

QUINCE, Angers

Rooted Cuttings, 1/4-in. and up..	42.00
No. 2, 2/16 to 3/16-in.....	34.00

FLOWERING and SHADE TREES

Flowering Crab Apple, br.
Prunus Triloba, bush and tree form.
Paul's S. Thorn, br. and whips.

American Sycamore, br. and whips.
Norway Maple, 3 to 4-ft., whips.
Red Maple (*Acer Rubrum*),
br. and whips.

Officinalis Rubra Peonies—3 to 5-eye divisions

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Coming Events

MEETING CALENDAR.

January 2 to 5, 1951, Indiana Association of Nurserymen, Purdue University, West Lafayette.

January 3 to 5, eastern regional convention, Hotel Statler, New York.

January 3 to 17, short course for landscape nurserymen, Virginia Polytechnic Institute, Blacksburg.

January 4, New York State Nurserymen's Association, Hotel Statler, New York city.

January 4, Long Island Nurserymen's Association, Hotel Statler, New York.

January 4 and 5, Oklahoma State Nurserymen's Association, Biltmore hotel, Oklahoma City.

January 8, Maryland Nurserymen's Association, Lord Baltimore hotel, Baltimore.

January 8, Idaho Nurserymen's Association, Benson hotel, Pocatello.

January 8, Missouri State Nurserymen's Association, Hotel Jefferson, St. Louis.

January 8, Kansas Association of Nurserymen, Hotel Jefferson, St. Louis.

January 9 and 10, Western Association of Nurserymen, Hotel Jefferson, St. Louis.

January 11, Connecticut Nurserymen's Association.

January 11 to 13, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines.

January 15, All-America Rose Selections, Inc., Hotel La Salle, Chicago.

January 15, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 15, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

January 15 and 16, arborists' school, Cornell University, Ithaca, N. Y.

January 16 to 18, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 22 to 24, short course for arborists, landscape gardeners and nurserymen, Neil House, Columbus, O.

January 24 to 26, Michigan Association of Nurserymen, Hotel Pantlind, Grand Rapids.

January 25 and 26, Ohio Nurserymen's Association, Neil House, Columbus.

January 26, Western New York Nurserymen's Association, Rochester.

January 28 to 30, Virginia Nurserymen's Association, Hotel John Marshall, Richmond.

January 29 and 30, Kentucky State Nurserymen's Association, Seelbach hotel, Louisville.

January 31, short course for nurserymen, University of Maryland, College Park.

January 31 and February 1, Pennsylvania Nurserymen's Association, Roosevelt hotel, Pittsburgh.

February 1, Oregon Association of Nurserymen, Georgian room, Heathman hotel, Portland.

February 1 and 2, Tennessee State Nurserymen's Association, Andrew Jackson hotel, Nashville.

February 2, New Jersey Association of Nurserymen, Trenton.

February 6 to 8, New England Nurserymen's Association, Hotel Kenmore, Boston, Mass.

February 9, West Virginia Nurserymen's Association, Gauley Bridge.

February 14 to 16, Midwestern chapter of the National Shade Tree Conference, Hotel La Salle, Chicago.

February 20, Rhode Island Nurserymen's Association, Johnson's Hummock's, Providence.

March 22 and 23, Southern Shade Tree Conference, Palm Beach, Fla.

SCHEDULE FOR EASTERN REGIONAL MEETING.

When the eastern regional nurserymen's convention is held January 3 to 5 at the Hotel Statler, New York, no general sessions are planned for the first day. Instead, there will

be a board of directors' meeting of the New York State Nurserymen's Association at 2 p. m. in conference room 8, and everyone is invited to attend the cocktail hour at 6 p. m. in the Penn Top.

At 9:30 the next morning the New York State Nurserymen's Association will hold a business meeting in the Penn Top, while members of the New Jersey Association of Nurserymen meet in conference room 2 and the Long Island Nurserymen's Association holds a business meeting in another room. The New York group will hear an address by their president, Jac Bulk, Bulk Nurseries, Babylon; the report of Secretary Al Synasael, Jackson & Perkins Co., Newark, and the reports of various committee chairmen. Dr. A. M. S. Pridham and Dr. W. E. Snyder, of the department of horticulture at Cornell University, will speak, and

MEET ME IN ST. LOUIS!

JANUARY 8-9-10

This is your opportunity to get acquainted with the St. Louis Nurserymen.

Write or wire Hotel Jefferson for room reservations. A block of rooms has been reserved.

Come and have a good time—interesting speakers and good entertainment.

MISSOURI STATE NURSERYMEN'S ASSOCIATION
January 8, 1951

WESTERN ASSOCIATION OF NURSERYMEN
January 9 and 10, 1951

BOOKS FOR NURSERYMEN FOR CHRISTMAS

Order from the lists on page 55 of the
November 15 issue and page 43 of the December 1 issue.

AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

Season's Greetings

Accept our gratitude over the past and our very best wishes for another prosperous year. No matter where one looks there is a home to be planted, so let's carry on to "Plant America."



TAXUS MEDIA HALLORIANA

For something new for 1951 we show here a photograph of a specimen Taxus Media Halloriana. This variety we have to offer in lining-out sizes and balled and burlapped sizes up to 18 to 24 inches. We find it worthy of recommendation.

All stock certified under federal supervision for shipment anywhere.

A. N. PIERSON, INC.

CROMWELL, CONN.

Represented by E. D. Robinson, Sales Agent, Wallingford, Conn.

an insurance authority will describe the New York insurance disability law.

Everyone will assemble for luncheon in the Sky Top room to hear Paul E. Belcher, vice-president and cashier of the First National bank, Akron, O., present his business forecast for 1951.

Members of the National Landscape Nurserymen's Association will meet at 2:30 p. m. in the Penn Top room to hear Homer Dodge, Landscape Service Co., Framingham, Mass., N. L. N. A. director for region 1, report on the association and on the work of the education committee. Dr. John R. Bracken, of the department of horticulture at Pennsylvania State College, State College, Pa., will describe "Plant Design Around Modern and Ranch Style Homes." The panel discussion to follow Dr. Bracken's talk will be led by Dr. Donald Wyman, of the Arnold Arboretum, Jamaica Plain, Mass., with various nurserymen presenting their views on the same subject. In the evening Dr. Wyman will act as moderator for an informal discussion on plant material.

Early Friday morning, delegates from region 1 of the American Association of Nurserymen will hold a business meeting, after which all

TWO NEW JUNIPERS

Juniperus Heasleyi

A beautiful, upright-growing tree, needs no trimming. A true blue color the year around. Grafted on Juniperus virginiana understocks. Picture on request. Spring, 1951, delivery.

\$65.00 per 100; \$550.00 per 1000

Juniperus Chinensis Hetzi

A beautiful, tall-growing, upright tree. Good green color with two types of foliage. Scions from the original plant. Grafted on Juniperus virginiana understocks. Spring, 1951.

\$65.00 per 100; \$550.00 per 1000

HEASLEY'S NURSERIES

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BUTLER, PA.

J. R. Boyd, President

John T. Boyd, Vice-president

H. B. Stubblefield, Supt.



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**SHRUBS, FOREST and SHADE TREES,
EVERGREENS, VINES and CREEPERS**

Trade list mailed on request.

LINING-OUT STOCK LIST

FALL, 1950, and SPRING, 1951

T—Once Transplanted
TT—Thrice Transplanted

TT—Twice Transplanted
FR—Field Row

		Per 100	Per 1000
30,000	<i>Althaea</i> , 1-yr. Sdgs.	\$ 3.50	\$ 27.50
2500	<i>Buxus Newport Blue</i> , 3-yr., TT, FR.	35.00	300.00
7500	<i>Cornus Kousa</i> , 2-yr., T, FR.	20.00	150.00
1500	<i>Cornus Kousa</i> , 3-yr., T, FR.	35.00	300.00
15,000	<i>Cydonia Japonica</i> , 1-yr., Sdgs.	3.50	27.50
3500	<i>Cydonia Japonica</i> , 2-yr., T, FR.	8.50	75.00
525	<i>Euonymus Radicans Carrierei</i> , 2-yr., TT, FR.	35.00	300.00
6000	<i>Leucothoe Catesbaei</i> , 2-yr., T.	20.00	150.00
3000	<i>Picea Canadensis Alba</i> , 3-yr., TT, FR.	25.00	200.00
25,000	<i>Pieris Japonica</i> , 1-yr., T.	8.50	75.00
15,000	<i>Pieris Japonica</i> , 3-yr., TT.	30.00	250.00
15,000	<i>Pieris Japonica</i> , 5-yr., TTT, FR.	50.00	450.00
2000	<i>Pinus Mughus</i> , 4-yr., T, FR.	30.00	250.00
75,000	<i>Rosa Multiflora Japonica</i> , 1-yr. Sdgs., 2 to 3 mm.	2.50	15.00
150,000	<i>Rosa Multiflora Japonica</i> , 1-yr. Sdgs., 3 to 6 mm.	3.50	25.00
6500	<i>Taxus Cuspidata</i> , 4-yr., TT, FR.	45.00	400.00
2500	<i>Taxus Cuspidata Nana</i> (Brevifolia), 2-yr., T.	30.00	250.00
3500	<i>Taxus Media Hatfieldi</i> , 2-yr., T.	30.00	250.00
5000	<i>Taxus Media Hatfieldi</i> , 4-yr., TT, FR.	45.00	400.00
4000	<i>Taxus Media Hatfieldi</i> , 5-yr., TT, FR.	70.00	600.00
2500	<i>Taxus Media Hicksi</i> , 2-yr., T.	30.00	250.00
4000	<i>Taxus Media Hicksi</i> , 4-yr., TT, FR.	45.00	400.00
4000	<i>Taxus Media Hicksi</i> , 5-yr., TT, FR.	70.00	600.00
2000	<i>Thuja Occidentalis Nigra</i> , 3-yr., TT, FR.	40.00	350.00
2000	<i>Thuja Occidentalis Pyramidalis</i> , 2-yr. grafts, FR.	70.00	600.00
5000	<i>Thuja Orientalis Aurea Nana</i> (Biota), 2-yr. grafts, FR.	60.00	500.00
25,000	<i>Wistaria Sinensis</i> , 1-yr. Sdgs.	3.50	27.50

Samples mailed on request.

BOULEVARD NURSERIES

NEWPORT, RHODE ISLAND

TAXUS

Quality stock with J. B. certificate; in carload or truck-load lots.

TAXUS capitata, 2½ to 8 ft.

TAXUS cuspidata,
1½ to 4 ft.

TAXUS nana and
intermedia, 1 to 3 ft.

TAXUS hicksi and **hatfieldi**,
2 to 4 ft.

Also

TAXUS capitata liners,
3 to 4 yrs., 1 to 2 ft.

BULK'S NURSERIES

Babylon, L. I., N. Y.

NORTHERN-GROWN LINING-OUT STOCK

	Per 100	Per 1000
<i>Betula papyrifera</i>		
1 to 2 ft.	\$ 6.00	\$ 50.00
2 to 3 ft.	8.00	70.00
3 to 4 ft.	25.00	250.00
4 to 6 ft.	40.00	400.00
<i>Clethra alnifolia</i>		
6 to 18 ins.	6.00	50.00
<i>Ilex verticillata</i>		
1 to 2 ft.	6.00	50.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	6.00	50.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	6.00	50.00

EVERGREENS

<i>Abies balsamea</i>		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	8.00	60.00
<i>Thuja occidentalis</i>		
6 to 9 ins.	4.00	25.00
6 to 12 ins.	5.00	40.00
<i>Tsuga canadensis</i>		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	5.00	40.00

HEMLOCK TRANSPLANTS

<i>Tsuga canadensis</i>		
4 to 8 ins., 1-yr. tr.	12.00	100.00
8 to 12 ins., 2-yr. tr.	18.00	160.00

The above stock is first-quality collected lining-out stock, except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

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EXETER, NEW HAMPSHIRE

CLEMATIS and ORNAMENTAL VINES

Write for list.

JAMES I. GEORGE & SON

Growers
FAIRPORT, N. Y.

BUXUS SEMPERVIRENS

12 to 15 ins., XXX, B&B
\$10.00 per 10; \$90.00 per 100
No Boxings.

EASTERN SHORE NURSERIES, Inc.
EASTON, MARYLAND

A. A. N. members from the region will hold a general meeting. At 10 a. m. Howard P. Quadland, publicity director for the A. A. N., New York, will tell of the market development and publicity committee's progress with the association's "Plant America" program. Following a merchandising and sales forum headed by Charles Boardman, Farr Nursery Co., Weiser Park, Pa., a representative from the New York advertising bureau, will discuss advertising and Walter R. Greenlee, of Schenley Industries, Inc., New York, will discuss merchandising, sales and display.

After a luncheon in the Sky Top room, Peter Cascio, West Hartford, Conn.; Wayne Ferris, Hampton, Ia., and Richard P. White, Washington, D. C., director from region 1, president and executive secretary of the A. A. N., respectively, will speak at the general session.

Registration fees at the convention will be \$10. Anyone wishing to register in advance should contact the convention secretary, Mrs. Marie Enberg, Rosedale Nurseries, Eastview, N. Y. Mrs. Enberg states that room reservations may be obtained by writing before December 23 to the front office manager, Mark Armani, Hotel Statler, New York city.

WESTERN, MISSOURI AND KANSAS PROGRAMS.

For the first time, St. Louis, Mo., will be host to the annual convention of the Western Association of Nurserymen, when members meet January 9 and 10 in the Crystal room of the Hotel Jefferson. And members of the Missouri State Nurserymen's Association and the Kansas Association of Nurserymen will hold meetings at the same hotel the day before.

The Western association's program will start Tuesday morning at 10:30 with a talk by Vance I. Shield, of the Shield Shade Tree Specialists, St. Louis, on "Trees."

Norman J. Scott, manager of Brookdale-Kingsway, Ltd., Bowmanville, Ont., Canada, will discuss "Office Management in the Nursery."

At the afternoon session Wayne Ferris, Hampton, Ia., president of the American Association of Nurserymen, will discuss "The Affairs of the A. A. N.," and Earl F. Crouse, of Doane's Agricultural Service, will talk on "Learning to Live with Government Control, Inflation and War."

The evening banquet and floor show, in the Continental room, will conclude Tuesday's activities.

GRAFTED STOCK

For Spring, 1951, Delivery

	Per 10	Per 100		Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.00	\$65.00	<i>Magnolia stellata rosea</i>	\$6.50	\$60.00
<i>Acer palmatum dissectum atropurpureum</i>	7.00	65.00	<i>Magnolia stellata rubra</i>	7.00	65.00
<i>Cornus florida alba plena</i>	5.00	45.00	<i>Magnolia stellata, Water Lily</i>	6.50	60.00
<i>Cornus florida rubra</i>	5.00	45.00	<i>Magnolia rustica rubra</i>	7.00	65.00
<i>Cornus florida rubra Prosser</i>	7.00	65.00	<i>Thuja occidentalis douglasii (spiralis)</i>	4.50	40.00
<i>Fagus sylvatica riversii</i>	7.00	65.00	<i>Thuja occidentalis elegantissima</i>	4.50	40.00
<i>Ilex opaca femina</i>	5.00	45.00	<i>Thuja occidentalis lutea, Mary Corey</i>	4.50	40.00
<i>Juniperus chinensis columnaris glauca</i>	5.00	45.00	<i>Thuja occidentalis lutea, George Peabody</i>	4.50	40.00
<i>Juniperus chinensis columnaris viridis</i>	5.00	45.00	<i>Thuja occidentalis nigra</i>	4.50	40.00
<i>Juniperus chinensis keteleeri</i>	5.00	45.00	<i>Thuja occidentalis pyramidalis</i>	4.50	40.00
<i>Juniperus chinensis neoboriensis</i>	5.00	45.00	<i>Thuja occidentalis rosenthalii</i>	4.50	40.00
<i>Juniperus chinensis sargentii</i>	5.00	45.00	<i>Thuja occidentalis wareana (sibirica)</i>	4.50	40.00
<i>Juniperus chinensis sargentii glauca</i>	5.00	45.00	<i>Thuja orientalis aurea nana</i>	4.00	35.00
<i>Juniperus chinensis meyeri</i>	5.00	45.00	<i>Thuja orientalis conspicua</i>	4.00	35.00
<i>Juniperus virginiana burki</i>	5.00	45.00	<i>Thuja orientalis elegantissima</i>	4.00	35.00
<i>Juniperus virginiana canaerli</i>	5.00	45.00	<i>Tsuga canadensis pendula</i>	5.50	50.00
<i>Juniperus virginiana elegantissima</i>	5.00	45.00	<i>Tsuga canadensis pendula, 1-yr. grafts</i>	7.00	65.00
<i>Juniperus virginiana glauca</i>	5.00	45.00			
<i>Juniperus virginiana globosa</i>	5.00	45.00			
<i>Juniperus virginiana kosteriana</i>	5.00	45.00			
<i>Juniperus virginiana schottii</i>	5.00	45.00			
<i>Juniperus virginiana pyramidaliformis hillii</i>	5.00	45.00			
<i>Juniperus sabina Von Ehron</i>	5.00	45.00			
<i>Magnolia lennei</i>	7.00	65.00			
<i>Magnolia soulangeana</i>	6.50	60.00			
<i>Magnolia soulangeana nigra</i>	6.50	60.00			
<i>Magnolia stellata</i>	6.50	60.00			

All the above shipped from 2 1/4-inch rose pots.

1-YEAR MAGNOLIA GRAFTS

For either Fall, 1950, or Spring, 1951, shipment.

	Per 10	Per 100
<i>Magnolia soulangeana</i>	\$8.00	\$75.00
<i>Magnolia soulangeana nigra</i>	8.00	75.00
<i>Magnolia stellata</i>	8.00	75.00

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

At Wednesday morning's session Paul Cole, of Shaw's Garden, will narrate the film, "Four Seasons," and Curtis H. Porterfield, Washington, D. C., administrative assistant of the A. A. N., will describe the progress made in the "Plant America" program. A business meeting will bring the convention to its close by noon.

Members of the Missouri State Nurserymen's Association will meet in the Crystal room January 8 for 12 o'clock luncheon. During a 2-hour program, starting at 1 p. m., A. D. Slavin, chief of the nursery division in the upper Mississippi region of the Soil Conservation Service, will discuss "What the Commercial Nurserymen Can Gain from a Soil Conservation Program." Charles Frederick, director of the sales managers' bureau of the St. Louis chamber of commerce, will speak on the topic, "Sales Talk," and Harold E. Mosher, landscape architect and instructor in horticulture at the University of Missouri, will talk about a subject of general interest to the nurserymen.

Vance I. Shield will be host to the visiting nurserymen during the cocktail hour that St. Louis members will sponsor immediately preceding the 8 o'clock banquet, at which the

QUEEN O' the LAKES



(Dark Velvety)

and 30 other fragrant

SUB-ZERO HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Also 20

Yellow and Orange Climbers

Write for trade prices to

BROWNELL ROSES

LITTLE COMPTON, R. I.

YOUR OPPORTUNITY —

THOUSANDS OF CYDONIA JAPONICA

for Fall and Spring, 1951, delivery

	Per 100
8 to 12 ins.....	\$5.00
12 to 18 ins., strong.....	7.00
18 to 24 ins., well branched.....	8.00

THE CONTINENTAL NURSERIES

FRANKLIN, MASS.

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

HEAVY FIELD LINERS SPRING, 1951

1,000,000 transplanted liners; 2, 3 and 4 years in field beds. X indicates times transplanted. Not less than 25 of a variety at the 100 rate. Shipment by express only. Terms: Cash with order and packing free; otherwise, 1/3 deposit with order, and balance C.O.D. and packing charged. Japanese beetle certification upon request. Balled material must be picked up at nursery.

<i>Euonymus carrierei</i> , 6 to 12 ins., each	100 rate
XX, 2-yr.	\$0.22
<i>Euonymus coloratus</i> , 6 to 12 ins.,	
XX, 2-yr.	.22
<i>Euonymus fortunei erectus</i> ,	
8 to 15 ins., XX, 2-yr.	.20
12 to 18 ins., XXX, 3-yr.	.25
<i>Euonymus vegetus</i> , 8 to 15 ins., XX,	
2-yr.	.25
<i>Ilex crenata</i> , 4 to 6 ins.,	
XX, 2-yr.	.22
6 to 10 ins., XX, 3-yr.	.35
<i>Ilex crenata bullata</i> , 4 to 6 ins.,	
XX, 2-yr.	.20
6 to 8 ins., XX, 2-yr.	.25
<i>Ilex glabra</i> , 6 to 10 ins., XX, 2-yr.	.30
XXX, 12 to 15 ins., 4-yr.	1.00
<i>Ilex rotundifolia</i> , 4 to 6 ins.,	
XX, 2-yr.	.20
6 to 8 ins., XX, 2-yr.	.25
<i>Juniper, Andorra</i> , 6 to 9 ins.,	
XX, 2-yr.	.25
9 to 12 ins., XX, 3-yr.	.35
<i>Juniperus glauca hetzi</i> , 10 to 15 ins.,	
XX, 2-yr.	.35
12 to 18 ins., XXX, 3-yr.	.50
<i>Leucothoe catesbaei</i> , 4 to 6 ins.,	
XX, 3-yr.	.25
6 to 10 ins., XX, 3-yr.	.35
<i>Pyracantha lalandi</i> , 6 to 12 ins.,	
X, 2-yr.	.20
<i>Taxus capitata</i> , 6 to 8 ins.,	
XX, 3-yr.	.25
<i>Taxus cuspidata</i> , 6 to 10 ins.,	
XX, 2-yr.	.25
10 to 15 ins., XX, 3-yr.	.35
<i>Taxus media hatfieldi</i> , 4 to 6 ins.,	
XX, 2-yr.	.18
6 to 8 ins., XX, 2-yr.	.25
<i>Taxus media hicksi</i> , 4 to 6 ins.,	
XX, 2-yr.	.18
6 to 8 ins., XX, 2-yr.	.25
<i>Thuja occidentalis</i> , adlg., 4 to 6 ins.,	
2-yr.	.10
6 to 12 ins., XX, 3-yr.	.20
<i>Thuja occ. elegantissima lutea</i> ,	
6 to 8 ins., XX, 2-yr.	.25
<i>Thuja occ. globosa</i> , XX, 6 to 8 ins.,	
2-yr.	.25
<i>Thuja occ. globosa nana</i> , 4 to 6 ins.,	
XX, 2-yr.	.25
<i>Tsuga canadensis</i> , 6 to 8 ins.,	
XX, 3-yr.	.20
8 to 12 ins., XX, 3-yr.	.25
<i>Viburnum opulus</i> , 12 to 24 ins., 2-yr.	.18

Refer to our December 1 advertisement for more complete list.

Please order in accordance with our above terms. No Sunday business.

PALLACK BROS. NURSERIES, Inc.

(On Highway 19,
31 mi. north of Pittsburgh, Pa.)
PHONE: ZELIENOPLE, 476-J 21
R.F.D. 1, HARMONY, PA.

LINING-OUT STOCK

in wide assortment

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

SPECIAL

PHILADELPHUS CORONARIUS

2 to 3 ft. and 3 to 4 ft.
Well rooted with 5 to 6 Canes

Ivan R. Congdon Nursery

North Collins, N. Y.

speaker will be Lloyd Stark, chairman of the board of Stark Bros. Nurseries & Orchards Co., Louisiana, and former governor of Missouri.

Conference room 1 of the Hotel Jefferson has been reserved by the Kansas Association of Nurserymen for a business meeting at 7:30 p. m. January 8.

INDIANA SPEAKERS.

West Lafayette, Ind., will again be the scene of the winter conference of the Indiana Association of Nurserymen when it meets January 2 to 5 in the West Faculty lounge of the Union building at Purdue University.

N. Kent Ellis, department of horticulture, will preside at the first session, Tuesday at 1:30 p. m., which Walter Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky., will open with a talk on "Public Relations in the Nursery Business." William Daniels, department of agronomy, will tell of the progress made in the development of lawn grasses. Harold Timmer and A. W. Wood, agricultural economics department, will present a progress report regarding a survey of Indiana nurseries.

Past President I. J. Mathews, Gary, will preside at the presidents' banquet at 6 p. m. in room 363, and E. C. Gorrell, editor at Winamac, will be the speaker.

Tom Hobbs, of C. M. Hobbs & Sons, Bridgeport, will preside at the Wednesday morning session, at which Richard P. White, executive secretary of the American Association of Nurserymen, will be the first speaker. Alfred Bloch, nursery manager of W. A. Natorp Co., Cincinnati, O., will speak on "Labor Management in the Nursery," and Harold H. Clegg, of Associated Sales, Lafayette, will talk on "Nursery Office Management."

After luncheon, Prof. L. R. Quinlan, department of horticulture, Kansas State College, Manhattan, will describe "My Favorite Plant Materials," and Dr. E. L. Butz, head of Purdue's department of agricultural economics, will give a talk entitled "Prince or Pauper." Moderator for a round-table discussion on "A Lining-out Program for the New Nursery" will be Henry Gilbert. Participants will be Walter Hillenmeyer, Harold Bohling, Robert Hoffman, Prof. L. R. Quinlan and Harold H. Clegg.

Plans for Wednesday evening's entertainment include a buffet dinner, professional entertainment and the



Our 66th Year

MALONEY BROS. NURSERY CO., INC.

DANSVILLE, NEW YORK

One of the largest producers in New York State of Hardy Upland-grown, Inspected for True-ness-to-name Fruit Trees, offers a complete assortment of

Apple-Plum, 1 and 2-yr.

Std. and Dwarf Pear, 1 and 2-yr.

Sweet and Sour Cherry-Quince,

1 and 2-yr.

Peach, 1-yr.

Also a good assortment of Shrubs, Shade Trees, Evergreens.

Let us quote on your requirements.

FLOWERING SHRUBS SPECIAL

Each

Weigela Eva Rathke,

2 to 3 ft. \$0.35

Hydrangea Peegee,

18 to 24 ins.25

Hydrangea Peegee,

2 to 3 ft.30

THE RHODE ISLAND NURSERIES NEWPORT, RHODE ISLAND



Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

W. - T. Smith Corporation
Telephone 2689 GENEVA, N. Y.

WANTED

1000 French Tree Lilacs, 3 to 4 ft.

Maxwell, Bowden & Rice, Inc.

Wholesale Nurseries
Geneva, N. Y.

showing of a movie of Hoosier nurserymen, by N. Kent Ellis.

Merrill Esterline, Eagle Creek Nursery Co., New Augusta, will preside at Thursday's sessions. The morning one will be entirely devoted to a business meeting. Victor Ries, horticulture and forestry department, Ohio State University, Columbus, will start the afternoon session with a talk entitled "If I Were a Nurseryman." M. Truman Fossum, of the agricultural division of the bureau of census of the United States Department of Commerce, Washington, D. C., will discuss "Probable Means of Determining the Demand for Nursery Products."

Toastmaster for the banquet in the North ballroom Thursday evening will be Devol Ernst, Ernst, Inc., Muncie. A group of short talks called "Around the World in Thirty Minutes" will be presented by Martin Gemachlich, Germany; Alok Guha, India; Saba N. Saba, Syria; Witold Krassowski, Poland, and Hisao Tada, Japan, who will tell about plant materials of their native countries.

At the final session, Friday morning, at which Robert Simpson, Simpson Orchard Co., Vincennes, will preside, the two speakers and their subjects will be Professor Quinlan, "Designing the Modern House," and R. B. Hull, department of horticulture, "Educating the Public."

IDAHO DATES.

Members of the Idaho Nurserymen's Association will meet January 8 at the Benson hotel, Pocatello. David C. Petric, secretary, has invited the members of the Utah Association of Nurserymen to combine with the Idaho nurserymen in a joint meeting at Pocatello.

The eastern Idaho group will cooperate with the extension service of the University of Idaho in holding a garden school at Pocatello January 9 and 10. A similar school will be sponsored by the western group at Boise January 16 and 17.

MARYLAND PROGRAM.

January 8 is the date set for the annual winter meeting of the Maryland Nurserymen's Association which will convene at the Lord Baltimore hotel, Baltimore.

President J. Hammond Brandt, of the J. W. Brandt Nursery Co., Upper Falls, will preside at the morning session and give his presidential address. John H. Burton, Hyattsville, will be the moderator for an open forum dealing with the ethics, guar-

It's The New Miticide!

Aramite*-15W

★ non-hazardous

★ highly effective

Extensive usage has shown that outstanding control of most varieties of mites can be achieved by infrequent spraying of your orchard, nursery or garden crops.

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Happy, Prosperous New Year.

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Broad-leaved Evergreens and a general line of quality ornamentals.

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antees and general problems involved in selling nursery stock. Discussion leaders and their subjects will be Raymond Bunting, Buntings' Nurseries, Inc., Selbyville, Del., and G. Hale Harrison, Harrison Bros. Nurseries, Berlin, Md., mail orders; C. W. Price, Towson Nurseries, Inc., Towson, and Ed Stock, Stock Bros., Inc., Bethesda, retail sales; Daniel B. Stoner, Westminster Nurseries, Westminster, and E. L. Bartle, Hagerstown Nursery Co., Hagerstown, landscape work, and William Lehr, Lehr's Nursery, Brooklyn, and Williar Pickett, Pickett's Nursery, Woodbine, cash-and-carry business.

To conclude the morning session Dr. Ronald Bamford, dean of the graduate school of the University of Maryland, will present a talk entitled "Some Observations in Europe."

Henry Hohman, Kingsville Nurseries, Kingsville, will be toastmaster at the luncheon which will feature the presentation of the association's annual professional achievement award. Immediately following the luncheon the speakers' program will be resumed. Dr. James Gwin, director of extension at the university, will present "Some Thoughts on Marketing," and Dr. T. B. Symons, former dean and director at the college, will discuss his "Observations in European Gardens." "Problems of Concern to Nurserymen" will be the subject covered by Dr. Ernest N. Cory, state entomologist at the university. Adolph Gude, of A. Gude Sons Co., Rockville, and L. H. Willis, Hyattsville Nursery, Hyattsville, will be discussion leaders for an open forum on "Opportunities for Cooperative Buying," while Carl Orndorff will lead an open discussion about "The Problem of Garden Club Discounts and Kickbacks."

N. L. N. A. CHICAGO MEETING.

Six speakers and their topics for discussion have been announced for the meeting of the National Landscape Nurserymen's Association, January 15, in Parlor D of the Hotel La Salle, Chicago. The program is being arranged by Lawrence G. Holmes, of Hartland, Wis., executive committeeman for region 3.

The first session will start at 10 a. m., and immediately following a message of greeting from President Ralph Griffing, Griffing Nurseries, Beaumont, Tex.; Charles Hawks, of the Hawks Nursery Co., Wauwatosa, Wis., will lead a discussion on the question, "Do Your Records Tell the Story?" Assisting Mr. Hawks will be

C. A. Mathes, of Holm & Olson, Inc., St. Paul, Minn., and Howard Edmundson, superintendent of Marshall Nurseries, Arlington, Neb. Another question, "Who Are the Landscape Nurserymen?" will be defined and answered by J. Franklin Styer, of Styer's Nurseries, Concordville, Pa., a past president of the association. A preview of "Plans for the Landscape People at New Orleans Next July," when the N. L. N. A. meets there during the annual convention of the American Association of Nurserymen, will be presented by Miss Catherine Huber, Jennings Nursery Co., Jennings, La., N. L. N. A. summer convention chairman.

After the luncheon recess, Maurice N. Marshall, of the Denver, Colo., office of Marshall Nurseries, will give an explanation and demonstration on "The Use of the Polaroid Land Camera for Landscape Sales Assistance." An illustrated discussion on "The Use of Plants in Modern Landscape Design" will be led by Carl S. Gerlach, department of landscape and urban planning, Michigan State College, East Lansing. The speakers' program will come to a close after a talk, "Working With the Weather," having to do with long-range weather predicting, by Myron C. Herrick, president of the Michigan Mushroom Co., Niles, Mich.

AARS TRUSTEES TO MEET.

All-America Rose Selections, Inc., will hold a midwinter trustees' meeting January 15. W. Ray Hastings, executive secretary, states that the session will be held at the Hotel La Salle, Chicago.

VIRGINIA NAMES CONVENTION COMMITTEES.

Under the direction of A. J. Shoomsmith, general chairman, plans are being made for the annual meeting of the Virginia Nurserymen's Association to be held January 28 to 30 at the Hotel John Marshall, Richmond. Commercial and educational exhibits will be a new feature of the convention. The state department of plant industry and the department of horticulture at Virginia Polytechnic Institute will be among those showing educational exhibits, and wholesale nurseries and supply companies will be well represented. All of the exhibits will be open to the public for a certain time each day. The commercial exhibit chairman is H. M. Van Wormer, Richmond, and his coworkers are Arthur Dugdale, cochairman, and Ed Campbell. Beverly Patton is in charge of the edu-

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SPREADING EUONYMUS (Willis Strain)

The most versatile and useful hardy broad-leaved evergreen.

Euonymus Patens usually exhibits a wide variation in foliage and habit of growth. The Willis strain, which is the result of many years of observation and selection, has medium-size, rounded, bright green, shiny leaves, and it grows rapidly and naturally into uniform, bushy, highly ornamental plants. Some seasons its beauty is enhanced by the production of attractive orange-red fruits that resemble those of the bittersweet.

Its uses are many:

Hedges—from 1 foot to 6 feet high. Excellent for edging formal plantings, rose gardens, etc.

Screen Plantings—grows naturally to 6 or 8 feet.

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Mass Plantings on lawns and to mark entrances.

Covering foundations, walls and chimneys. Clings to brick, stone and stucco without support.

For planting in very narrow areas where there is not sufficient room for ordinary shrubs. Can easily be kept in bounds by shearing.

Good substitute for Boxwood.

Formal Plantings—shears readily into formal shapes.

Adds interest to ordinary shrub or evergreen plantings.

Background plantings for annual and perennial gardens.

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24 to 30 inches, extra-heavy, B&B.....	\$35.00	\$325.00
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18 to 24 inches, heavy, B&B.....	20.00	175.00
15 to 18 inches, extra-heavy, B&B.....	17.50	150.00
15 to 18 inches, heavy, B&B.....	15.00	125.00
18 to 24 inches, bare root, puddled.....	10.00	90.00
15 to 18 inches, bare root, puddled.....	7.50	67.50
12 to 15 inches, bare root, puddled.....	6.50	55.00

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18 to 24 ins., BR.	\$10.00	\$ 85.00
18 to 24 ins., B&B	13.50	120.00
2 to 3 ft., B&B	20.00	175.00
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6 to 9 ins.	10	100	1000
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cational exhibits, with W. L. Winn, cochairman, and Eugene LeCouteur.

Other committees and their members include: Entertainment, Robert Lewis, chairman; T. D. Watkins, co-chairman, and Fred Williams; decoration, Herbert Knowles, chairman, and George Stockner, cochairman; reception and hospitality, John O. Williams, chairman, and J. R. Richardson, cochairman; ladies' entertainment, David Laird, chairman; Mrs. A. S. Gresham, Jr., Mrs. David Laird and Mrs. John O. Williams; registration, W. W. Watkins, chairman, and Mrs. Audrey Burton, and publicity, Mrs. Mary Terretta Burrell.

MARYLAND SHORT COURSE.

There will be a short course for nurserymen January 31 at the University of Maryland, College Park. Maryland nurserymen and faculty members of the university are cooperating in making the arrangements. George S. Langford, educational secretary of the association, and Prof. Pardon Cornell, of the horticultural department, are engaging the speakers now.

ROSE-TESTING STATION AT SOUTHWESTERN LOUISIANA.

To expand its system for testing new rose introductions, All-America Rose Selections have designated Southwestern Louisiana Institute as their twentieth trial garden, announces E. S. Boerner, president of the association.

The All-America system for screening new varieties was started in 1938, when the country's leading rose growers organized for the purpose of raising the standards of rose culture.

New rose introductions are tested for two years at stations so located as to give the widest possible variation in soil and climate. During the two years' test, each entry is graded by impartial judges according to a uniform scoring schedule on some fifteen characteristics, such as hardiness, length of flowering period, vigor, fragrance, number of blooms produced and other essential qualities.

The total scores from each station are compiled by the national rose jury, which then makes a final decision on the plant's ability to meet the high qualifications set by A. A. R. S. An announcement of new winners is made annually, and to date only thirty-two varieties have been able to qualify.

Southwestern Louisiana Institute

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We offer a small quantity of *Juniperus Burki* and *Keteleeri* in 10 and 12-year-old specimens. Extra-heavy, 5 to 6 and 6 to 8 ft.; also *Juniperus Stricta*, 5 to 6 ft., well sheared and many times transplanted.

Koster Juniper, spreaders,
4 to 6 ft.

Mugho Pine, 3 to 5 ft.

100 Liquidambar, 2 1/4 to 4-in. caliper.

400 Ash, 1 1/2 to 2-in. caliper.

10,000 Apple and Pear trees,

2, 3 and 4-year-old; 1-year

Peach, commercial varieties.

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Azalea**

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2-yr. T	\$15.00
Baltic Ivy , 2-yr., R.C.	6.00
English Box , 2 to 2 ins., T.	7.50
3 to 4 ins.	10.00
American Box , 3 to 4 ins.	7.50
4 to 6 ins.	10.00
6 to 8 ins.	15.00
Hex Bullata , 4 to 6 ins., 2-yr. T.	15.00
6 to 8 ins., T.	20.00
Hex Crenata , 4 to 6 ins., 2-yr. T.	15.00
6 to 8 ins., T.	20.00
Leucothoe Catesbaei , 6 to 8 ins., T	15.00

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Evergreen Seedlings and Trans-
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Shade and Nut Trees, Roses, Ber-
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Fredonia, 2-1	11.00	90.00
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Boysenberry (Common), No. 1 tips	5.50	45.00
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Wildor, 3-yr. heavy	15.00	130.00
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Red Lake, 2-yr. No. 1	16.00
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Each Per 10 Per 100 Per 1000			
2-yr., 9 to 12 ins., bearing age	\$0.40	\$3.50 \$32.50 \$300.00
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Latham, 1-yr. No. 1	6.00	50.00
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Cumberland, trans., No. 1	8.00	70.00
Cumberland, trans., No. 2	6.50	55.00
Cumberland, tips, No. 1	4.50	35.00
Logan, trans., No. 1	8.00	70.00
Logan, trans., No. 2	6.50	55.00
Logan, tips, No. 1	4.50	35.00
Morrison, trans., No. 1	9.00	80.00
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PURPLE RASPBERRIES			
Sodus, No. 1, tips	5.50	45.00
ASPARAGUS			
Paradise and Washington	4.00	30.00
2-yr. heavy	2.30	18.00
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1-yr., in 10,000 lots	10.00
VICTORIA RHUBARB			
Whole Roots	8.00	75.00
1 1/2-in. and up	5.50	50.00
1 to 1 1/2-in.	4.00	35.00
3/4 to 1-in.	3.00	25.00
1/2 to 3/4-in.
RED RHUBARB			
Canada Red, No. 1 divisions	40.00	350.00
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Cuttings, 4 to 5 ins.	3.00	20.00
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is located at Lafayette, La., and its climate is representative of conditions natural to the Gulf coast territory. Prof. Ira S. Nelson, of the institute's department of horticulture, heads the new testing station. He is an expert on rose cultivation and on semitropical plants as well.

In addition to the twenty testing stations of All-America Rose Selections, there are six demonstration gardens where the public may preview the varieties undergoing the 2-year trials.

Testing stations of All-America Rose Selections are Woodland park, Seattle, Wash.; International Rose Test Gardens, Washington park, Portland, Ore.; Armstrong Nurseries, Ontario, Calif.; Howard & Smith, Montebello, Calif.; Jackson & Perkins Co., Pleasanton, Calif.; Clyde H. Stocking, San Jose, Calif.; Texas Rose Research Foundation, Tyler, Tex.; Municipal park, Tulsa, Okla.; Gerard K. Klyn, Mentor, O.; Lyndale park, Minneapolis, Minn.; Gage park, Topeka, Kan.; Elizabeth park, Hartford, Conn.; Cornell University, Ithaca, N. Y.; Penn State College, State College, Pa.; H. G. Hastings Co., Atlanta, Ga.; Bobbink & Atkins, East Rutherford, N. J.; Jackson & Perkins Co., Newark, N. Y.; Conard-Pyle Co., West Grove, Pa.

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NEW A. A. N. PUBLICITY COMMITTEE APPOINTMENTS.

At a meeting November 24 at Chicago of the market development and publicity committee of the American Association of Nurserymen, President Wayne Ferris appointed Howard C. Taylor, Eastview, N. Y., chairman of the committee to fill the vacancy left by the death of Clarence O. Siebenthaler in October. And he named John A. Armstrong, Ontario, Calif., to serve on the 3-man executive committee of the market development and publicity committee.

Mr. Taylor operates the Rosedale Nurseries, at Eastview, N. Y., having taken over their management in 1931. The firm does a wholesale and retail business as well as offering a landscape service. Mr. Taylor has served the A. A. N. as president, vice-president and treasurer and has also been president and director of the New York State Nurserymen's Association.

President of Armstrong Nurseries, Inc., at Ontario, Calif., which is best known for its rose originations and introductions, Mr. Armstrong is a past president of the A. A. N., the California Association of Nurserymen and All-America Rose Selections, Inc. His firm does a large retail business in nursery stock and operates several branch salesyards in California.

COMMITTEES PLAN A. A. N. NEW ORLEANS CONVENTION.

Richard P. White, executive secretary of the American Association of Nurserymen; J. B. Baker, Jr., director for region 5; Rene J. Casadaban, general chairman of the convention, and Elmer A. Farley, co-chairman, met with several southern nurserymen at the Roosevelt hotel, New Orleans, November 13, to discuss the committee assignments for the annual A. A. N. convention to be held at New Orleans July 15 to 19, 1951.

Among those attending were Mr. and Mrs. L. A. Dean, Tyler, Tex. (she is president of the ladies' auxiliary); Miss Catherine Huber, Jennings, La.; George P. Dupuy, William H. Kraak and Manuel B. Za-

bala, president of the Louisiana State Horticultural Association, all of New Orleans; Owen Blackwell, Tom Dodd, Jr., and C. Elwood Stephens, all of Semmes, Ala.; Preben Ibsen, Mobile, Ala.; Prof. J. A. Foret, Southwestern Louisiana Institute, Lafayette, and Mrs. J. B. Baker, Jr., Fort Worth, Tex.

Chairman Casadaban, of Abita Springs, La., presided at the 10 a. m. session and asked Secretary White to outline the purposes of the meeting and to explain the organizational setup under which the local committee is to operate. Names of persons to work on the various subcommittees and their duties were suggested, with the provision that additional members may be called upon later. They were assigned duties to complete before the next meeting at the same hotel January 7.

Regional Director Baker will serve as general adviser and as an ex officio member of all committees.

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Scotch Pine and Balsam.

Also wreaths and greens.
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Chairmen of the subcommittees and their coworkers are as follows: Executive, Rene J. Casadaban, general chairman; Elmer A. Farley, co-chairman; George P. Dupuy, L. A. Dean, Preben Ibsen; finance and budget, George P. Dupuy, chairman and treasurer; Rene J. Casadaban, Elmer A. Farley and John Wight, ex officio; decoration, William H. Kraak, chairman; Ray Breedlove, Herman Farley and William Bradshaw; entertainment, L. A. Dean, chairman; Owen Blackwell, Elmer A. Farley and H. H. Chase; exhibits, George P. Dupuy, chairman; Steve Verhalen, Tom Dodd, Jr., and John Fraser III; registration and greeters, Floyd McKee, chairman; Jack Sneed, Fred Hoyt, John Harkins, Tom Dodd, Jr.; Price Magee, C. Elwood Stephens, Glenn D. Baker and Fritz Huber; housing, Manuel B. Zabala, chairman; transportation, Manuel B. Zabala, chairman; Mrs. Caroline Weiss, Eugene Howard, Jr.; Oscar Gray, Jr.; Warren Welch,

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Gardens

Howard Sparkman, Walter Grimes, Paul Guthrie and William Biggs; publicity, Howard P. Quadland, Miss Mary Tuite and Miss Camilla Bradley; "Rebel" room, C. Elwood Stephens, chairman; L. A. Dean, entertainment chairman, and William H. Kraak, decorations' chairman; educational exhibits, Prof. James A. Foret, chairman, and Ira S. Nelson, cochairman; ladies', Mrs. L. A. Dean, chairman; Mrs. Elmer A. Farley, Mrs. J. B. Baker, Jr.; Miss Catherine Huber, Mrs. George Anding, Miss Camilla Bradley, Mrs. Caroline Weiss, and wives of committee chairmen; teen-age, Mr. and Mrs. C. G. Simon, Jr.; Mr. and Mrs. Homer Eikner, Mrs. Leonard Riggs and Mrs. John Fraser III.

George P. Dupuy.

TULSA, OKLA., NOTES.

Officers of the Oklahoma State Nurserymen's Association met recently at Oklahoma City and laid plans for the winter meeting, which will be held January 4 and 5 at the Biltmore hotel, Oklahoma City.

The Tulsa Nurserymen's Association met November 14 at Pride's cafeteria, Clyde A. Bower, chief inspector, department of entomology and plant industry, was the speaker of the evening.

Hot weather and a prolonged drought throughout the fall greatly hampered the work of nurserymen in this vicinity.

James Campbell, of Mayfair Nurseries, Tulsa, reports that he is building a new lath house, 70x70 feet. Another Mayfair project is a tract of 105 acres of bottom land in west Tulsa to be used for nursery stock. Forty acres of it is already filled with lining-out stock.

Mrs. W. J. Clorc, of the Quality Nursery, Tulsa, whose husband, W. J. Clorc, died in August, is continuing the business as before.

The Oklahoma Shade Tree Nurseries, Tulsa, which specialize in the moving of large trees, using the Williams & Harvey rocker-type equipment, have moved their salesyard and office to a larger tract at 5801 South Peoria avenue.

Mr. and Mrs. Jack Fisher are the parents of a son, Joseph Richardson Fisher II, born August 26.

The Reser Landscape Nursery, 5201 East Fifty-first street, Tulsa, is a new firm started last summer by C. V. Reser, with Burl Gulick as manager. The firm will do a general nursery business and expects to be ready for selling by next spring. The company has built an office and a 32x48-foot lath house and converted

PAPERSHELL PECAN TREES

We have a surplus of around 10,000 pecan trees of the following varieties: **Jack Ballard**, **Stewart** and **Madame X**. Excellent root system. Better trees are not grown. We quote as follows:

	Each Per 10	Each Per 100
7 to 8 feet.....	\$2.75	\$2.50
6 to 7 feet.....	2.25	2.00
5 to 6 feet.....	2.00	1.75
4 to 5 feet.....	1.50	1.40
3 to 4 feet.....	1.25	1.10
2 to 3 feet.....	1.00	.90

THOMAS WALNUT TREES

We have a few thousand Thomas Walnut of the following sizes:

	Each Per 10	Each Per 100
5 to 6 feet.....	\$1.25	\$1.15
4 to 5 feet.....	1.10	1.00
3 to 4 feet.....	.90	.80
2 to 3 feet.....	.75	.65

PIGGOTT NURSERY COMPANY
PIGGOTT, ARKANSAS

BROAD-LEAVED EVERGREENS, CONIFEROUS EVERGREENS, DECIDUOUS MAGNOLIAS, SHRUBS, etc.

Lining-out and finished grades. Quality stock at prices you can afford to pay. Our lists for the season 1950-51 will be mailed promptly upon receipt of your request.

T. G. OWEN & SON, Inc.
COLUMBUS, MISSISSIPPI

"True Varieties" Is Not a Boast... It's A HABIT!

ROSEBUSHES

Licensed Grower,
All-America
Introductions.

Refrigeration.

AVOID HEELYARD HAVOC.

ARP

NURSERY CO.

P. O. Box 867-D TYLER, TEXAS

GET YOURS FIELD-FRESH AND FREEZE-FREE.

PECAN TREES

WALNUT, FIG

PERSIMMON

Wholesale Catalog.

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Royer

High Point, N. C.

GLADIOLUS BULBS

We grow three to four million Glads per year, and bouquet sales take care of half our annual payroll. We will be happy to send you one of our catalogs when the new one is out about January 1. Drop us a card.

VENNARD'S NURSERY

Box 394-N

Sioux City, Ia.

English Boxwood

More than 12,000 plants to select from. All specimen plants. Sizes 28 to 38 ins. Write for wholesale prices.

F. L. JOHNSON,

Mount Airy, N. C.

50,000 DAHLIA ROOTS

We grow many acres of standard cut flower varieties for the trade.

Write today for wholesale price list.

PAYNE DAHLIA FARMS

ROUTE 5 KANSAS CITY 3, KAN.

EVERGREEN LINERS IN PLANT BANDS

Wintered in the Greenhouse

Book your order for spring.

JUNIPER, Pfitzer, Andorra, Procumbens, Swedish, Greek.

5 to 8 ins., 14½¢

8 to 10 ins., 20¢

TAXUS CUSPIDATA, Spreading Japanese Yew.

TAXUS CAPITATA, Upright Japanese Yew.

4 to 6 ins., 14½¢

EUONYMUS vegetus.

EUONYMUS patens.

(Large or Small Leaf.)

5 to 8 ins., 14½¢

EUONYMUS coloratus.

Beautiful leaf-veined ground cover or wall climber.

Branched field plants,

15 ins., 14½¢

Heavy, outdoor, summer-rooted cuttings 5¢

Above prices are for 300 or more, total order. If less than 300, price is 16¢ instead of 14½¢, 22¢ instead of 20¢, 6¢ instead of 5¢.

McINICH GREENHOUSES

St. Joseph, Mo.

Send your order for the new nursery book, "Garden Guide for the Midwest," to Frank Glenn, 197 W. 11th St., Kansas City, Mo., \$3.75. Author is Stanley McLane, of J. C. Nichols Co., Kansas City builders. He is held in high regard by engineers, builders, real-estate men and nursery trade in this area.

LANDSCAPE MATERIALS

Taxus

Juniperus

Magnolias

Write for special list.

WYOMING NURSERIES

C. E. Kern

CINCINNATI 15, OHIO

PHOTINIA VILLOSA

12 to 18 ins. trans. \$12.50 per 100.

NEWPORT NURSERY CO.

NEWPORT, MICHIGAN



Wholesale growers of the best

Ornamental Evergreens,

Deciduous Trees

Shrubs and Roses

Write for our current trade list.

THE KALLAY BROTHERS CO.

Painesville, Ohio

Over 100 Years' Nursery Experience

ILGENFRITZ NURSERIES, Inc.

The Monroe Nurseries

MONROE, MICHIGAN

GET THE BEST

BUY ILGENFRITZ

an existing building into a potting shed, tool shed and seed storehouse. Mr. Gulick was married November 4 to Charwynne Higdon, daughter of C. Y. Higdon, of Higdon's Flower Shop & Nursery, Oklahoma City.

Mr. and Mrs. Gerald Spoor and two children, of the Holland Nursery, Tulsa, spent last summer in Europe, visiting at their home town, Helden, Holland, and calling on a number of Holland bulb growers. They went to Boskoop, Holland, the center of Holland's nursery export business. They visited the formal gardens at Versailles, near Paris, and the school of horticulture at Geneva, Switzerland. R. W. C.

OKLAHOMA CITY NEWS.

Conditions have been favorable for good nursery business this fall at Oklahoma City, Okla., and throughout all of the state, with the possible exception of some areas in southern Oklahoma where it was too dry for digging throughout November.

Landscape work was held up some because of dry, warm weather at Oklahoma City, but it was never necessary to stop digging. Cold weather arrived with Thanksgiving day, and nearly everyone who had placed an order for nursery stock wanted it delivered immediately; so nurserymen were rushed.

There has been no damage here, as of December 1. It is reported that a freeze early in November destroyed much of the broad-leaved evergreen stock in north and central Texas.

Shortages in some kinds of stock are reported, among them, all grafted junipers and *Juniperus pfitzeriana* and some varieties of flowering shrubs. There appear to be ample quantities of pecan trees.

At the recent annual horticulture show sponsored by students of the horticulture club at Oklahoma A. and M. College, Stillwater, awards and scrolls for outstanding work in the field of horticultural science were presented to the following men: D. C. Mooring, who retired last month after many years' work in the horticultural department at the college; A. G. Hirschi, of Hirschi's Nursery, Oklahoma City; Earl Nichols, Nichols Seed & Feed Co., Oklahoma City; Ben Davis, Ozark Nursery Co., Tahlequah, and John Leonard, Leonard Floral Co., Durant. Each was sponsored by a student club member who told something of the work done by the award winner. The honorary achievement awards included a scroll and a key.

Mr. and Mrs. A. W. Kenyon, of



Growers at Wholesale
of a General Line of
Hardy Northern Stock.

Write for Price List.

JEWELL NURSERIES, Inc.

Box 457

Lake City, Minn.

ORNAMENTALS

TREES SHRUBS

EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois

LAKE'S

SHENANDOAH NURSERIES

Shenandoah, Iowa.

*Wholesale growers of
a fine assortment of*

GENERAL NURSERY STOCK

Your inquiries will be appreciated.

WE OFFER TO THE NURSERY TRADE

surplus
**PEACH, SOUR CHERRIES, ORNAMENTAL
SHRUBS and LINING-OUT STOCK.**

Send us your list for quotations
for Fall, 1950, and Spring, 1951, delivery.

THE PONTIAC NURSERY CO.

ROMEO, MICH.

BURTON'S

HEADQUARTERS FOR
**EVERGREEN GRAFTS, TRANSPLANTED
EVERGREENS, SHRUB LINERS.**
Write!
RARE ITEMS YOU DO NOT
FIND IN MOST LISTS!

HILLTOP NURSERIES
CASTOWN, OHIO

F.O.B. BOYD NURSERY CO., McMinnville, Tenn.**SPECIALS FROM BOYD'S**

Evergreen Liners
Choice field-grown liners—(100 Rate)—Priced per each

	4 to 6 ins.	6 to 8 ins.	8 to 12 ins.
Irish Juniper, C.	10c	15c	20c
Ashfordi Juniper C.	10c	15c	20c
Canadensis Spreading Juniper	7 1/2c	10c	15c
Nandina Domestica, L.O. Div.	8c	12c	15c
Hemlock, Canadian, Tr.	10c	20c	25c
Ligustrum Lucidum, C.	7 1/2c	10c	15c
Euonymus Japonica, Tr.	20c	25c	35c
Juniper, Excelsa Stricta, Tr.	20c	25c	35c
Juniper, Sabina, Tr.	20c	25c	35c
Arborvitae, Chinese, Tr.	5c	7 1/2c	10c
Arborvitae, Bakers, Tr.	20c	25c	35c
Arborvitae, Pyramidal, Sdgs.	8c	12c	15c
Arborvitae, Excelsa, Sdgs.	8c	12c	15c

For other specials write for our new trade list.

Kenhaven Perennial Gardens, Rogers, Ark., had as their guests, for the Thanksgiving holidays, Mr. and Mrs. W. C. Kenyon, Mr. and Mrs. R. A. Kenyon, Mr. and Mrs. W. D. Kenyon, Mr. and Mrs. J. J. Kenyon and Mr. and Mrs. Henry Frankinfield, all of Oklahoma City. Kenyon's Nursery held its annual rose show October 8 at Dover, Okla.

Alvin Fent, grower for Capitol Hill Florist & Green House, attended the horticulture show at Oklahoma A. and M. College last week. Mr. Fent brought home seven blue ribbons for fine carnations and snapdragons won by his firm.

Richard Cunningham has joined the staff at Capitol Hill Florist & Greenhouse.

J. Frank Sneed, Sr., of the Sneed Nursery Co., was among those who went to Dallas, Tex., for the Oklahoma University football game last month.

Mr. and Mrs. Lee Carter, of Carter's Floral & Nursery, had as their guests during Thanksgiving holidays Mr. and Mrs. T. A. Roberts, of Chickasha, and their son, James Roberts, of Edmond, and Mr. and Mrs. W. A. Crismore, of Harrah.

B. H. P.

CORRECTION.

A news item in the November 15 issue stating that Ralph Burt, of Garden City, Kan., had added more lath houses to his area under shade erroneously gave the name of his nursery as the Garden City Nursery. Mr. Burt operates the Garden Nursery, while the Garden City Nursery, at the same city, is operated by B. R. H. d'Allemand, who established his business in 1919.

OPEN house was held recently at the new modern office and salesyard of Buchanan's Nursery, 5108 Western boulevard, Raleigh, N. C., which has also opened a small gift shop that carries a selection of garden supplies.

WE HAVE IN QUANTITY

Apple, 2 and 3-yr.
Pear, 2 and 3-yr.
Cherry, 1 and 2-yr.
Plum, 1 and 2-yr.
Apricot, 1 and 2-yr.
Peach, 1-yr.

Thurlow Weeping Willow,
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; Juniperus columnaris, glauca, keteleeri, Hill's Dundee, up to 3 1/2 to 4 ft. Pfitzer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

C. M. HOBBS & SONS, Inc.

Phone: Indianapolis, Belmont 1812
BRIDGEPORT, IND.

PFITZER JUNIPERS

2 1/2-in., pot-grown
(And they have grown since being potted!)

MOST OUTSTANDING STOCK

18c each

Ready now.

VERHALEN NURSERY CO.

SCOTTSDALE, TEXAS

Your Profits Grow in
Verhalen Plants

Minnesota Grown

**FLOWERING CRABS
ORNAMENTAL TREES
and SHRUBS**

Fruit Trees and Berries

Complete Selection
of Fine Roses

Write for our Free Wholesale Catalog

Andrews
NURSERY COMPANY
SINCE 1872
FARIBAULT, MINN.

**COMPLETE ASSORTMENT
OF**

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.

**HEAVY 2-YR. SHRUBS
FRUIT TREES**

SPECIMEN EVERGREENS

LINING-OUT STOCK

SNEED NURSERY COMPANY

P. O. Box 798

Oklahoma City 1, Okla.

Wholesale nursery
in business for 50 years.

**Beautiful
NATIVE RED CEDARS**

Fall and Spring. While they last.
Never able to supply all our orders in
the spring. Book orders now.

5 to 10 ins.	Per 1000
10 to 15 ins.	\$20.00
15 to 24 ins.	35.00
24 to 36 ins.	Per 100
	7.50
	12.50

Write for good prices on Hard Maples,
Dogwood, Red Bud, Black Walnuts, etc.

ROLLERS NURSERY

Phone 661

Rogers, Ark.

**EVERGREENS**

Growers of Quality Evergreens
Lining-out Stock a Specialty
Write for Trade List

EVERGREEN NURSERY CO.
Established 1884 : STURGEON BAY, WIS.

WELLER'S PERENNIALS

With That Wonderful Root System
Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.
Leading Perennial Growers
HOLLAND, MICH.

OBITUARY

George F. Verhalen and Mrs. S. J. Verhalen, Sr.

George F. Verhalen, 65, president of Verhalen Nursery Co., Scottsville, Tex., and his mother, Mrs. S. J. Verhalen, Sr., 86, were killed instantly in an automobile accident December 2 near their home at Scottsville.

Mrs. Verhalen was the widow of the firm's founder. She was the former Matilda Fax and married Stephen J. Verhalen in 1882 at Green Bay, Wis.

George Verhalen was born at Marinette, Wis., where his father, Stephen J., maintained a grocery store until a fire destroyed it in the 90's. Later the family moved to Chicago, where the father was in the produce business. In 1903, during the Elberta peach craze, Stephen Verhalen joined with some associates in planting peach orchards at Scottsville, Tex.; when the trees came into bearing, the Verhalens moved to Texas. By the time the labor shortage during World War I had made the orchards unprofitable, Mr. Verhalen's sons, George and Ray, had become interested in the nursery trade and began to produce cannas, narcissus bulbs, evergreens and polyantha roses. In 1928 the firm was incorporated, with the father as president; Ray as vice-president and general manager, and George, secretary-treasurer and office manager. The father died in 1939, and the two sons continued to expand the business.

George Verhalen is survived by his widow, two daughters, one son, two brothers, Ray P. and Walter, both at Dallas; one sister, Sister Mary Raymond, of the Holy Cross, and several nephews, including Steve, who is well known to the trade; Cameron, Raymond, Jack, Donald and Jim.

L. P. Smith.

L. P. Smith, owner of the Smith Nursery Co., Memphis, Tenn., died November 4 after a year's illness. He was 60 years old.

Born in Benton county, Mississippi, Mr. Smith lived at Memphis since 1902. Besides his nursery business, he maintained farming interests near Collierville, Tenn. He was a member of the local Methodist church and of numerous civic groups.

Mr. Smith is survived by his widow, Mrs. Carlie Grisham Smith; a son, G. A. Smith; three daughters,

Mrs. N. G. Welch, Mrs. H. D. Welch and Mrs. Fred Werne; five sisters, and one brother.

Eldridge H. Cannon.

Eldridge Haskell Cannon, owner and operator of the E. H. Cannon Nursery, Dallas, Tex., died November 20 in a hospital at that city. He was 44 years old and had been ill for some time. The business was founded over fifty years ago by his father.

Survivors are Mr. Cannon's widow and daughter.

Rudolph Boysen.

Rudolph Boysen, 55, developer of the boysenberry, died November 27 at Anaheim, Calif.

SARVER REORGANIZATION.

The Sarver Nursery Co., which has operated at Dallas, Tex., for the past thirty-seven years under the ownership and management of J. W.

Sarver, was recently reorganized to form a separate sales and landscape service department. This department will be under the direction of Ralph Pinkus and Mrs. Connie Sabatini.

Mr. Pinkus was graduated from the National Agricultural College, Doylestown, Pa., and received a certificate for professional training at the New York Botanical Garden's school for gardeners in 1939. He was employed at the garden for over five years, during most of which time he was in charge of the arboretum and propagation department. While there he compiled a "Catalog of Hardy Trees and Shrubs," which still serves as the public's guide to the numerous woody plant collections at the garden.

At the beginning of World War II, Mr. Pinkus was called upon to help develop a method for the propagation of quinine on a commercial basis by grafting. As a result, he spent the past seven years in

COTINUS COGGYRIA

Common Smoke tree

One of our most rare and lovely shrubs. Heavily branched panicles of unusual purple to red bloom completely cover the plant in late spring. Hardy through Zone V.

	Per 10
4 to 5 ft.....	\$12.50
3 to 4 ft.....	8.50
2 to 3 ft.....	7.50
18 to 24 ins.....	6.50

Five plants at ten rate.

CHASE NURSERY COMPANY
CHASE, ALABAMA

CHRISTMAS TREES

Beautiful Red Cedar
and Yellow Pine

4 to 6 ft., \$60.00 per 100 in 200 lots, delivered up to 200 miles. 500 or more delivered up to 400 miles.

ROLLERS NURSERY
ROGERS, ARK.



SEMMES NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.



CAMELLIAS

New low wholesale prices on field-grown, irrigated camellias. Also azaleas, fruit and pecan trees.

WIGHT NURSERIES, CAIRO, GA.



SEMMES, ALABAMA

Azaleas, Camellias, Magnolias
and a General Line of
Ornamental Nursery Stock
Lining-out Stock Our Specialty
WHOLESALE ONLY

*Supreme
Selling...*

ROSES

- Nationally Advertised
- Cold Storage
- Now Booking
- Highest Quality
- Standard and Patented

CO-OPERATIVE ROSE GROWERS
TYLER, TEXAS

LINING-OUT AND FINISHED STOCK

Azaleas, Camellias, Magnolias
and other Ornamentals.

Catalog on request.

OVERLOOK NURSERIES, Inc.
MOBILE, Crichton Sta., ALABAMA

We Offer for Fall, 1950 and Spring, 1951

Per 100 Per 1000

Liriodendron, Tulip Poplar.		
6 to 12 ins.	\$1.75	\$15.00
12 to 18 ins.	2.00	18.00
2 to 3 ft.	3.00	25.00
3 to 4 ft.	4.00	35.00

Cercis Canadensis, Redbud.		
6 to 12 ins.	2.50	20.00
12 to 18 ins.	3.00	25.00
2 to 3 ft.	4.00	35.00
3 to 4 ft.	5.00	45.00

Cornus Florida, White Dogwood.		
6 to 12 ins.	2.50	20.00
12 to 18 ins.	3.50	30.00
2 to 3 ft.	4.50	40.00
3 to 4 ft.	6.00	50.00

Azalea, Flame or Red to Crimson.		
6 to 12 ins.	4.50	40.00
12 to 18 ins.	5.50	45.00
18 to 24 ins.	6.50	55.00

H. G. HALLUM NURSERY CO.
McMINNVILLE, TENN.

NURSERY-GROWN

Cornus Florida, 2 to 3 ft., sdgs.		Each
light br.		\$0.15
3 to 4 ft., light br.		.25
4 to 5 ft., sdgs., well br. tr.		.50
Calycanthus, 2 to 3 ft., sdgs.		.07½
Abelia Grandiflora, 12 to 18 ins.,		
light br.		.15
Amur River South Privet, sdgs.,		
1-yr., field-run, \$7.50 per 1000.		

Your want list for other stock appreciated.

The ARNOLD C. CLARK NURSERY
Route 2
McMinnville, Tenn.
Phone: 0722

SPECIALTY ITEMS

From the Center of the South.

Red-leaved Barberry, bushy transplants		Each
15 to 18 ins.		\$0.20
18 to 24 ins.		.30
Tree Wistaria		
3 to 4 ft.		3.00
2 to 3 ft.		2.25

THE Southern
Nursery & Landscape Co., Inc.
Est. 1872
Write for our complete new
wholesale list.
WINCHESTER, TENN.

COLLECTED STOCK

Rhododendron carolinianum, Rhododendron maximum, Kalmia latifolia, Hemlock (Tsuga), Native Azaleas, White Pine (Strobilus). 3 to 4 ft., assorted as wanted. Sphagnum moss packed. Pre-paid, \$26.50 per 100; \$16.00 per 50.

NATURE'S GREENHOUSE
TALLULAH FALLS, GA.

Guatemala where he was employed by Merck & Co., first as plant propagator and then as manager of a large quinine plantation. While in Guatemala Mr. Pinkus shipped many foliage plants to various members of the trade, and he was instrumental in organizing the Guatemala Bulb Importing Co. to import various bulbs, such as caladiums, amaryllis, tuberoses and zephyranthes, which he grew there.

Mrs. Sabatini, a well known gardener at Dallas, has many years' experience as a garden and color consultant. She is a grower of iris and day lilies. Mrs. Sabatini was associated for the past two seasons with Lambert Gardens, of the Lambert Landscaping Co., Dallas.

GWENN-GARY ENTERTAINS MAHONING VALLEY GROUP.

Although its new offices still lacked the finishing touches, Gwenn-Gary Nursery, Columbiana, O., entertained forty members of the Mahoning Valley Landscape Gardeners' and Nurserymen's Association in them, October 31. President Paul Wilms, owner of the host nursery, presided at the meeting, and he and Mrs. Wilms, assisted by their daughter, Gwendolyn, and son, Gary, served a delicious lunch to their guests. George W. Duncan, Youngstown, was in charge of the program.

Gerard K. Klyn, Mentor, discussed the culture of roses. Mr. Klyn stressed the fact that requirements for producing a new type of rose are rigid and require at least three years of work by the grower. Any grower who produces a good variety must have 30,000 to 40,000 buds available for marketing, because new varieties are constantly in demand regardless of price. He also said that the growers in Holland, where he visited recently, wanted to obtain the new varieties produced in the United States.

Prior to hearing Mr. Klyn's talk, members inspected the new buildings, including two greenhouses, 14½x52 feet. Adjoining them is a modern building of steel, cement and glass block, erected on three different elevations. It has a 22x32-foot room for propagating evergreens, a spacious office and a 30x40-foot storage room. In the basement there is a 30x40-foot room for a garage, tools and the furnace. Gas provides the heat throughout the building. The Wilmses' new residence on the nursery property is uncompleted, because of lack of certain materials.

WE OFFER For Fall Shipment Nursery-Grown Stock

Tsuga Canadensis.		
Ilex Opaca.		
6 to 9 ins., fr. xx.	\$ 9.00	\$ 80.00
9 to 12 ins., fr. xx.	13.00	120.00
12 to 15 ins., fr. xx.	16.00	150.00

Abelia Grandiflora.		
Hydrangea Paniculata Grandiflora.		
6 to 12 ins., 1-yr., C.	7.00	65.00
12 to 18 ins., 1-yr., C.	11.00	100.00
18 to 24 ins., 2-yr., br.	15.00

Cornus Florida.		Each
2 to 3 feet, well br.		\$0.20
3 to 4 feet, well br.		.30
4 to 5 feet, well br.		.45

Native Shrubs and Evergreens

Tsuga Canadensis.		
3 to 6 ins., s.	\$0.75	\$ 6.00
6 to 9 ins., s.	1.50	10.00
9 to 12 ins., s.	2.50	20.00
12 to 18 ins., s.	4.00	35.00
18 to 24 ins., s.	6.00	55.00

Ilex Opaca.		
Rhododendron Maximum.		
Kalmia latifolia.		
3 to 6 ins., s.	2.00	15.00
6 to 9 ins., s.	3.00	25.00
9 to 12 ins., s.	4.00	35.00
12 to 18 ins., s.	5.00	45.00
18 to 24 ins., s.	6.50	60.00

Kalmia latifolia.		Each
Rhododendron Maximum.		per 10 per 100
12 to 18 ins., heavy br.	\$0.20	\$0.15
18 to 24 ins., heavy br.	.25	.20

Azalea Calendulacea.		
Azalea Nudiflora.		
12 to 18 ins., liners.		.07
12 to 18 ins., heavy br.	.12	.10
18 to 24 ins., heavy br.	.17	.15

CUMBERLAND PLATEAU NURSERY
YORK ROUTE CROSSVILLE, TENN.

QUALITY JUNIPER GRAFTS

For spring, 1951, delivery, from 2½-in. pots on Virginiana understock. We are grafting Juniperus Virginiana Canaerti, Glauca, Pyramidiformis (Dun-dee), Burki and Keteleeri.

2 and 3-yr. field-grown Grafted Junipers in the above varieties.

PAUL ARTERBURN NURSERY
P. O. Box 72 St. Matthews, Ky.

30,000 Potted Taxus Liners

1, 2 and 3-year.

Weigela Eva Rathke, transplants.
Viburnum Rhytidophyllum.

HUMPHREYS LANDSCAPE SERVICE
MT. STERLING, KY.

FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard.

Pear, 1 and 2-yr., Dwarf and Standard.

Plum, 1 and 2-yr.

Sweet and Sour Cherry, 1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

KELLY BROS. NURSERIES, Inc.
DANSVILLE, N. Y.

SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

Siebel No. 1000
also

Currants and Berry plants

Write for price list.

FOSTER NURSERY CO., Inc.
FREDONIA, N. Y.

*We specialize in
these outstanding products*

Chipman's Canada Red, MacDonald and Valentine Rhubarb.

Minnesota Fruit Breeding Farm creations.

Hardy Apple and Plum Seedlings.

SUMMIT NURSERIES
STILLWATER, MINN.

WE OFFER . . . Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

STRAWBERRY AND BLUEBERRY PLANTS

also
Raspberry, Grapevines, Boysenberry, Dewberry, Blackberry and Horse-radish.

Shipped direct to you or your customers.

H. D. RICHARDSON & CO.
BOX 22 WILLARDS, MD.

VERMONT NURSERYMEN DISCUSS SOIL CARE.

Vermont nurserymen and florists held a lecture-discussion meeting November 17 at the state agricultural college of the University of Vermont, Burlington. Profs. Roger Clapp and Lyle Littlefield, both of the University of Maine, Orono, were the principal speakers. The discussion periods were led by Profs. C. H. Blasberg, Edward P. Hume and Richard Hopp, faculty members at Burlington.

Soil management in the greenhouse was the main topic of discussion. Professor Clapp stressed the importance of having sufficient organic matter in the soil. He advocated composting the soil before benching it, as this tends to avert an unbalanced quantity of nitrogen during crop growth and reproduction. Use two-thirds good loam and one-third fresh barnyard manure in the compost, and add lime when needed. Fill the bench with composted soil, which, in general, should have about a pH 6 reaction.

When the soil is not reasonably friable, add peat moss at the rate of two bushels to each 100 square feet. Add superphosphate at benching by applying five pounds to every 100 feet of bench space. Mix or chop the mixture into the soil thoroughly. When potting soil mix, include a 1 to 3-inch cupful of superphosphate for each bushel of soil. Sterilize the soil and bench by steam heating the soil to 180 degrees Fahrenheit for thirty minutes. This will eliminate weeds, reduce disease and insect trouble and improve the general soil texture. Sterilized soil must be allowed to cure for one week and kept in a moist condition during this period as well as afterward. When ready, bench the plants and water the soil thoroughly. One week after benching have a soil test made by taking samples from ten widely separated locations. Feed the crop according to the needs shown by the soil test. Have a soil test made each month and watch carefully the nitrogen and potash levels.

Printed directions covering the need of major plants in the greenhouse were distributed to the audience.

Fertilizers for greenhouse use were discussed by Professor Littlefield, who told about nitrogen, phosphorus, potash nutrient and organic supplements and fertilizers and suggested many different formulas.

Sterilizing soil was explained by Dana Halladay, nurseryman and flo-

PEAR TREES

10 trees or 50,000 trees.

Le Conte, Garber, Kieffer, Douglas, Baldwin, Orient, Pineapple, Bartlett, Biscamp, Lincoln and others. Each

2 to 3 ft.	25c
3 to 4 ft.	35c
4 to 5 ft.	40c
5 to 6 ft.	45c
6 to 7 ft.	50c
7 to 8 ft.	55c

Write us about any big order for orchard planting.

We have a few thousand P. calleryana seedlings to offer the trade this season in sizes from 16 to 24 ins., well calipered. Apparently the best understock for long-life pear trees. Ask for our list. Satisfied customers throughout the southwest are our best references.

WHITEROCK NURSERIES
Geo. M. Jeffus, Mgr.
CROCKETT, TEXAS

Chipman's RED RHUBARB

Large, No. 1 divisions.

The kind you like to get.

\$15.00 per 100; \$125.00 per 1000.

Cash with order, packing free.

Packed in wire-bound citrus crates.

KEELER'S GARDENS
SIOUX FALLS, SOUTH DAKOTA

We Offer

OUR USUAL SUPPLY OF NURSERY STOCK

Apple	Peach	Pear
Plum	Cherry	Apricot
Figs	Grapes	Pecans

June Bud Peach

Japanese Persimmon

Ornamental and Shade Trees

Send us your want list;
write for prices.

COMMERCIAL NURSERY CO.
Nicholson Bros. DECHERD, TENN.

GRAPE CUTTINGS

New low prices per 1000.

Concord, \$5.00; Niagara, \$5.50;

Delaware, \$5.50; White Elvira, \$5.50.

Wire-bound, 100 per bunch, expertly cut. Packing free.

Place orders at once, large or small.

PAW PAW PLANT CO.
PAW PAW, MICH.

A General Line of FRUIT and ORNAMENTAL TREES and PLANTS

BUNTINGS' NURSERIES, Inc.
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SMALL FRUIT PLANTS

Evergreens—Shrubs
Asparagus—Rhubarb

Send for Complete Trade List.

W. N. SCARFF'S SONS
NEW CARLISLE, O.

PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25c per copy
American Nurseryman Chicago 4.

rist at Bellows Falls. Cleansing the propagating medium, regardless of its nature, of sand, peat or mixtures, is desirable, though not always necessary. Cooking it by steam is one good way. Washing with clean water is another, but pond or brook water may be contaminated; so the steam method is preferable. Mr. Halladay preferred steam as a sterilizing agent for bench soil or for potting material, heating the soil to a temperature of 180 degrees for twenty minutes. He claimed many troubles, such as stem rot, nematode and mildew, were forestalled by heat sterilization, to which he subjects his frames and benches every year.

"Grower Hints" was the topic of James Dodge, of the Park Floral Co., Ellsworth, who told how to select cut flower varieties for succession and how to keep greenhouse roses healthy.

Under the title "Questions of the Day," Professor Hume discussed how to expand the horticultural program in Vermont to improve the present efficiency and quality of products grown there; to introduce new and better kinds and varieties of plants, and to determine the time of flowering for seasonal demands.

M. B. Cummings.

GARDNER'S PICTURES.

Celebrating its fiftieth anniversary, Gardner's Nurseries, Inc., Rocky Hill, Conn., has distributed a booklet of twenty-four pages and cover, 8½x11 inches, devoted to pictures of the blocks of conifers growing in the nurseries. The halftone plates, of half-page and full-page size, give an impressive series of views of the fields of taxus, hemlocks, arborvitae and blue spruce. Incidentally, the operations of spraying with a mist blower, fumigating, irrigating, shearing and cultivating, both with tractors and horses, are seen. Brief captions under the illustrations add to the interest.

REPRESENTATIVES in the South Bend, Ind., district for C. W. Stuart & Co., which has its headquarters at Newark, N. Y., were honored last month at a dinner which the company gave at the Hotel Hoffmann in recognition of the fact that the South Bend local district won second place in the company's nation-wide contest for volume of sales. Fred H. Irwin is local manager. A cup for the largest individual volume of business was awarded to Russell Johnson, South Bend.

GROWING SATISFACTION

CHERRY — The finest block of cherry we have ever grown.

PEACH — Complete assortment of standard varieties.

**APPLE — PEAR — PLUM — GRAPES
RHUBARB — ASPARAGUS**

EVERGREENS — Extra-select specimens. Grafted Junipers - Arborvitae - Euonymus.

SPECIMEN SHRUBS — for Landscape Jobs.

We can furnish you with beautiful, full-color 64-page
PLATE BOOK for YOUR SALESMAN.
A Post Card will bring complete wholesale price list.

NEOSHO NURSERIES

NEOSHO ★ ★ ★ MISSOURI

Ivan R. Congdon Nursery

CONTRACT GROWING A SPECIALTY

Wholesale

Since 1918

NORTH COLLINS, N. Y.

Grapevines, 1 and 2 years old

Blackberries, Currants and Shrubs

Black and Purple Raspberries, Tips and Transplants

Red Raspberries, No. 1 and Transplant Grades

Grown in the heart of Erie County, New York,
one of the largest small fruit sections in the world.

BOOKING ORDERS NOW FOR 1950 DELIVERY

English Walnuts.

Southern and Western Pecans.

Pecans with branched and fibrous roots.

Twenty-five years' growing experience.

LINWOOD NURSERY

Rt. 2, Box 476

TURLOCK, CALIF.

ROBERTS NURSERY CO.

Wholesale growers of Dependable

FRUIT TREES

We solicit your list of wants.

DANSVILLE, N. Y.

L. R. TAYLOR & SONS

Topeka, Kansas

APPLE, PEAR, MAHALEB Seedlings.

APPLE, PEACH, CHERRY, PLUM Trees.

Write for quotations.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

CENTRAL CHAPTER MEETS.

The Central chapter of the California Association of Nurserymen held a joint meeting with the California Horticultural Council November 9 at the Willows restaurant, Orinda. Seventy-five members and guests enjoyed dinner and participated in the constructive and entertaining program that followed. Many stayed for dancing after the meeting.

Among the guests were Richard Schroder, president of the California Horticultural Council, and Walter Tecklenburg and Elmer Merz, treasurer and executive secretary, respectively, of the California Association of Nurserymen.

"May I help you?" and "What may I do for you?" are questions outmoded in modern selling methods today, according to Norris F. Pope, of Contra Costa Junior College, who presented a program on salesmanship. Even more important in modern selling, he emphasized, is the right mental attitude. A film entitled "By Jupiter" showed the advantages to salesmen in starting the day with a cheerful attitude.

Because of the special program, a portion of the regular business, including the secretary's report, was omitted, but the proposed state bedding plant marketing order was brought up for discussion. Elmer Merz explained the different benefits provided under such an order and answered various questions asked by members.

Ray Hartman explained the function of the California Horticultural Council. After his pointing out the many benefits derived from this organization, the nurserymen were even more convinced that their continued cooperation would pay dividends. John Snyder, Sec'y.

REDWOOD EMPIRE CHAPTER.

The seventy-ninth meeting of the Redwood Empire chapter of the California Association of Nurserymen was held at the Mission Inn, San Rafael, November 14. There were thirty-three members present. A surprise visit was made to the chapter by the following officers of the California Association of Nurserymen: William S. Clark, Van

Nuys, president; Herman Sandkuhle, Oakland, vice-president, and Elmer J. Merz, Sacramento, executive secretary.

The business meeting was opened by the reading and approval of minutes for the previous meeting. A financial report by the new secretary-treasurer, Hugh Wallace, indicated the chapter to be in good financial condition.

Chapter President Harold Prickett introduced President Clark, who expressed concern over the price war occurring between southern California nurseries. He said he hoped that it would not spread. President Clark felt that possibly some of the trouble

could be traced to wholesale bargains which make the retailer feel that he can sell the merchandise at bargain prices. Mr. Clark concluded by stating that an analysis of selling costs would probably correct such faulty thinking.

Mr. Sandkuhle substantiated the remarks of Mr. Clark and said that an analysis would show an increase in fixed selling costs, and, therefore, this is not the time to cut prices. He mentioned that at a recent meeting of bay area nurserymen, they decided to increase nursery prices ten per cent and to hire a certified public accountant to make an analysis of accounts in an attempt to convert nursery work into a more profitable business venture.

Mr. and Mrs. Glenn L. Conn, Village Nursery, Santa Rosa, were introduced as prospective new members of the association.

The meeting was turned over to Don Perry, Sunnyside Nursery, who showed some colored slides taken recently when he made a trip to Eng-

*They've Been "Going Together" for Years
and are still*

Everybody's Favorite Holiday Couple

Merry Christmas---Happy New Year



WEEKS WHOLESALE ROSE GROWER



R. F. D. 3, Box 323

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SANTA ANA, CALIF.



California-grown Rosebushes — Plus Service

We specialize in growing rosebushes for sale at wholesale in lots of 100 to 10,000. Through specialization we are able to offer the best in rosebushes and service. Your inquiry will receive our prompt attention.

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UNIFORM SUN CONTROL WITH **ALUMALATH** (ASSEMBLED WITHOUT NAILS)

**CHOOSE WHERE YOU WANT THE SUN!
CHOOSE WHERE YOU WANT THE SHADE!**

SO POPULAR!

Attractive — Beautiful
Sturdy — Long lasting
Easily assembled — Light weight
Fire proof — Weatherproof
Designed to your requirements

SO MANY USES!

Uniform shading from one foot to acres
Patios . . . for gracious outdoor living
Lath houses . . . for things you want to grow
For cold frames
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Or you decide where!

MIN-ALUMALATH...



For Low Plants or Flats



Shade for People



Adjustable to 5 feet high

Packaged Minalupalath is sold in 4' by 4' for Plants and People

HARRY H. REYNOLDS

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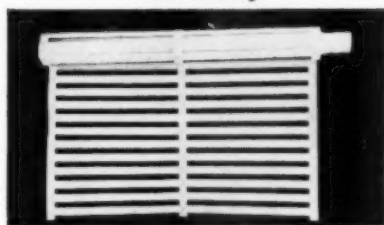
Hundreds of Nurserymen are profiting today... Write Now!



Alupalath House



Patio Covering



Alupalath Rolls

5' Wide, 50' long, 12" diameter
"lays like a carpet"

land, France, Holland, Switzerland and Norway. As he showed the pictures of famous gardens, historical spots and flowers, Mr. Perry commented briefly upon each one.

Hugo Wallace, Sec'y.

CENTINELA VALLEY.

William Broadbent, of the W. W. Broadbent Advertising Agency, Inc., was guest speaker November 20 when the Centinela chapter of the California Association of Nurserymen held a dinner meeting at the Western Avenue Golf Course grill, Inglewood.

Mr. Broadbent gave an interesting, informal discussion of advertising and business trends. The main points in his talk were that the census bureau spends millions of dollars compiling information, but spends nothing to release it; that the outlook for the nursery industry is good for 1951 through 1954, because of the defense program; that consumer steel goods will be short, and that employment will be at a high level, so the general public will have more money to spend on nursery products.

Mr. Broadbent warned his listeners not to sit and wait for this business, but to conduct an intelligent advertising campaign that will create



WE OFFER YOU

THE RIGHT TOOLS
FOR THE JOB.

Save time by making
drainage holes in 3 sizes
of your plant cans
with

**The Handy-Man
MULTIPLE PUNCH**

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BERKELEY)

YOU
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BEAT IT!

ORDER
NOW!

IT'S ALL
STEEL!



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WM. A. JOHNSTON

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A complete list of **HYBRID TEAS, CLIMBERS, BABIES and FLORIBUNDAS**. Also, one of the most complete lists of patent varieties, including the A.-A. R. S. award winners.

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EASTERN REPRESENTATIVE:

FRANK C. DONOVAN
Suite 84, 130 EAST 233rd ST.
EUCLID 23, OHIO

PETERSON & DERING
ROSE GROWERS
Scappoose, Oregon

Learn

ORNAMENTAL HORTICULTURE

A thorough, constructive home training for employment or advancement in Nursery Operations, Park Supervision or Maintenance, Landscape Designing or Landscape Gardening. Send for Free bulletin. **APPROVED FOR VETERANS.**

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Dept. N-12, 310 So. Robertson, Los Angeles 48, Calif.

30,000 DORMANT HYDRANGEAS

We Offer Top-Quality Field-Grown Plants
For Forcing or Garden Planting

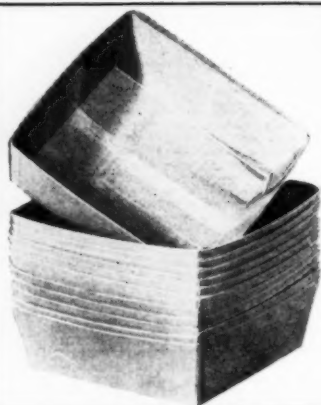
Ami Pasquier	Pink	Kuhnert	Blue
Blue Prince	Blue	Strafford	(Top), Pink
Gertrude Glahn	Pink	Regular	(Very fine), White
3 canes			35c
4 to 5 canes			45c
6 canes and up			50c

Packing at Cost.

CLACKAMAS GREENHOUSES, INC.

Phone: Oregon City 3302

Clackamas, Oregon



BEDDING PLANT BASKETS

Water-proofed inside.
8 x 8 x 2½ ins. deep.

Order now for later delivery.

JOSEPH ZANETTI CO.

Since 1928

Original Manufacturers of
Nonmetal Glue Welded

FRUIT and BERRY BASKETS

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Tel.: Valencia 4-5190

FOR 1950 SEASON

Fruit Trees
Small Fruits
Fruit Tree Seedlings
Flowering Trees
Shade Trees
Shrubs
Roses

and a general assortment of other nursery stock.

Ask us to put your name on our mailing list. (Use your letterhead.)

RICH & SONS NURSERY
Hillsboro, Oregon

APPLE and PEAR SEEDLINGS CHINESE ELM SEEDLINGS

Bartlett Pear Trees
Montmorency Cherry Trees
Flowering Peach Trees
and similar stock.

WASHINGTON NURSERIES
Toppenish, Wash.

PACIFIC COAST NURSERY

2244 N. Skidmore Ct. PORTLAND 11, OREGON

Pioneering Seedling Growers on
the Pacific Coast Since 1914.

We have French and domestic Apple Seedlings, French and Bartlett Pear Seedlings, Mahaleb and Mazzard Cherry, Myrobalan and American Plum, Angers Rooted Quince Cuttings, Chinese Elm Seedlings, and English Privet; also Shade and Flowering Trees. For this season, the shade and flowering trees are all sold; however, we are taking orders for fall of 1951 or spring of 1952.

If you have never tried our stock,
give us a trial order.

John Holmason & Sons, Props.

ROSES OLD and NEW

Fine crop two-year Oregon stock on multiflora in bush, climbers, babies and floribundas. Now booking orders for fall to spring delivery. Send for list.

MT. HOOD NURSERY
Rt. 2, Box 96 GRESHAM, ORE.

F. A. DOERFLER & SONS NURSERY

150 N. Lancaster Drive
SALEM, ORE.
Phone: 2-1322

a demand for nursery stock, a campaign that will make the public plant-conscious. He said that price advertising is not the solution, but that a consistently instructive type of advertising is to be highly recommended. Group advertising also has great possibilities and should be given much consideration. He suggested that the editorial technique and syndicated column type of advertisements are appropriate for many kinds of businesses. Placement of an advertisement on the newspaper or magazine page is important, and the top of a right-hand page, the last page and the page with the least advertising are among effective positions.

F. A. Seright, Sec'y.

CAPITAL NURSERY EXPANDS.

To maintain pace with the steady and rapid growth of the Capital Nursery, 4700 Freepoint boulevard, Sacramento, Calif., Charles and Eugene Armstrong have announced expansion plans and the appointment of Martin Deane Wickett to the newly created post of sales manager.

In a statement issued jointly by the Armstrong brothers, they said: "The constantly increasing volume of business, both wholesale and retail, has made it advisable to expand our organization and operation. The appointment of Mr. Wickett to supervise sales, merchandising and advertising is in keeping with this move. Furthermore, we have acquired a 10-acre site a short distance south of the present nursery, which, added to the present eleven acres, will enable us to enlarge our growing operations materially."

Mr. Wickett, who resigned as director of radio stations KXOA at Sacramento, KXOB at Stockton and KXOC at Chico to accept this post, brings a wide background of advertising and sales to his new position. Previously he was sales promotion manager for Gooderham & Worts, Ltd., San Francisco. From 1939 to 1943 he held the post of radio director for the New York office of Erwin, Wasey & Co., one of the country's leading advertising agencies, leaving to become program manager for the Columbia Broadcasting System at Washington, D. C., for the ensuing four years. Mr. Wickett is a resident of nearby suburban Carmichael, where he owns his own home and an orange grove of 200 trees. Married and the father of three children, he is active in the Rotary and the Carmichael Firemen's Association.

KOLORCOAT SEED CONTEST.

With entries from thirty-five states and several European countries, Germain's Kolorcoat-coated seeds contest judges have announced the winner of first prize is a California woman, an amateur gardener, Mrs. Hazel Victoria Gehrig, of Mira Loma.

Manfred Meyberg, president of Germain's, presented Mrs. Gehrig with a check for \$100 for her prize-winning letter on what Kolorcoat-coated seeds produced for her in the way of zinnias.

Second prize of \$50 was awarded to Mrs. David Keazer, Portsmouth, N. H., and third prize of \$25 went to Mrs. Evan Wissmiller, Cooksville, Ill.

The rules of the contest required that an individual buy a packet of Kolorcoat-coated seeds, plant them and then write a letter telling what the seeds produced, what were their desirable characteristics and what was discovered about Kolorcoat seeds that was unlike other seeds.

CATALOGS RECEIVED.**WHOLESALE PRICE LISTS.**

Arnold C. Clark Nursery, McMinnville, Tenn.—Shrubs, ornamentals, evergreens, vines and small fruits; 8 pages, 4x9 inches.

J. H. Faassen-Hekkens, Tegelen, Holland—Ornamentals, deciduous trees and shrubs, evergreens, fruit trees, nut trees, perennials and bulbs; 72 pages and cover, 6¾x9¾ inches.

McIninch Greenhouses, St. Joseph, Mo.—Evergreen liners; 8 pages, 4½x9 inches.

L. B. Merrick Nurseries, Whittier, Calif.—Ornamentals, evergreens, perennials and deciduous trees, shrubs and vines; 40 pages and cover, 4x9 inches.

Milton Nursery Co., Milton, Ore.—Fruit tree seedlings and cuttings, shade trees and ornamentals; 8-page leaflet, 4x9 inches.

Mitsch Nursery, Aurora, Ore.—Evergreens and perennials; 16 pages and cover, 4x8¾ inches.

Wonderland Nurseries, Ellerson, Va.—Chrysanthemums; illustrated, 32 pages and cover, 8½x11¼ inches.

RETAIL CATALOGS.

Sims Fruit & Nursery Farms, Hannibal, Mo.—Fruit trees, small fruits, nut trees, ornamentals and evergreens; illustrated, 32 pages, 7¾x10½ inches.

Stribling's Nurseries, Merced, Calif.—Ornamentals, evergreens, deciduous trees and shrubs, vines, fruit trees, nut trees and small fruits; illustrated, 40 pages and cover, 8½x11 inches.

RETAIL PRICE LIST.

Green Bush Gardens, Charlotte, Vt.—Lilies and ferns; 8 pages and cover, 5½x8½ inches.

NEW address of Lambert Landscape Co. is 3800 Northwest highway, Dallas, Tex. The former address was 2204 Cedar Springs road.

PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE

Avery H. Steinmetz

PORTLAND 14, OREGON

Paul E. Van Allen

To the Nursery Trade
Christmas Greetings
and
Best Wishes
for the
New Year

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

*Write for our Catalog***MAHONIA AQUIFOLIUM**

(Oregon-Washington Holly-Grape)

A very beautiful evergreen shrub with large, glossy leaves and yellow flowers appearing conspicuously in spring and followed by dark blue berries. A most satisfactory broad-leaved evergreen for any place in the United States.

1-yr. seedlings, field-grown, row run,
\$35.00 per 1000; \$5.00 per 100.

No packing charge if check sent with order. All other orders shipped C.O.D.

Place your orders now for Fall, 1950, or Spring, 1951, delivery.

Chenoweth's

MOUNT VERNON NURSERY

Mount Vernon, Wash.

A. MCGILL & SON

FAIRVIEW, OREGON

Wholesale only

CONSTANT VIGILANCE RESULTS
IN QUALITY STOCK

Fruit Tree Seedlings
Flowering Ornamental Trees
Shade Trees

Combination carloads to Eastern
distributing points.

Write for our List.

Eastern Representative:

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Euclid 23, Ohio

DOTY & DOERNER, Inc.

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Portland 1, Oregon

Wholesale Growers
of
General Nursery Stock

DEL RANCHO FORTUNA

FRUIT TREES
and
GRAPEVINES

P. O. Box 548
McFARLAND, CAL.

EVERGREEN LINERS

Azaleas, Conifers, Heathers, etc.
Available in rooted cuttings and field
transplants grown in sandy soil.

Write for descriptive, illustrated
catalog.

MITSCH NURSERY

Wholesale Propagators and Growers of
Evergreen Liners

AURORA, OREGON

KEEPS ROOTS MOIST

* When packing bare roots or deciduous stock for shipment or storage, use Wood Feathers brand cedar shavings (red cedar shingle tow). There are 3 reasons for Wood Feathers' superiority:

1. Large moisture-absorbing capacity.
2. Will retain moisture for a long period of time.
3. Economical and easy to use.

Wood Feathers

BRAND

CEDAR SHAVINGS

P. O. BOX 98 NORTH PORTLAND, ORE.

MINNESOTA MEETING.

[Continued from page 12.]

intermedia, selected forms, as secondary. For dwarf, compact, flat-top, *T. cuspidata nana* and *T. media wardi* are selected, with *T. cuspidata prostrata* secondary.

In the small types, four to six feet, for slow-growing, bushy upright, *T. media kelseyi* is selected with *T. baccata aurescens*, *T. cuspidata aurescens* and *T. media wellesleyana* secondary. For slow-growing, bushy, spreading, four are selected, *T. media browni*, *T. media No. 8*, *T. cuspidata intermedia* and *T. media brevicata*. Three more are secondary, *T. media cliftoni*, *T. media henryi* and *T. media nigra*.

In the small type, four to six feet, more rapid-growing, broad, bushy, spreading, *T. media hatfieldi* is selected, with six secondary, *T. cuspidata expansa*, *T. hunnewelliana*, *T. media andersoni*, *T. media densiformis*, *T. media dutuilerdi* and *T. media wymani*.

In the same height size, narrow and upright, selected varieties are *T. cuspidata fastigiata*, *T. cuspidata stovekeni* and *T. media hicksi*, while secondary are *T. baccata fastigiata*, *T. baccata compacta*, *T. cuspidata robusta* and *T. media mooni*.

Medium height, six to ten feet, broad, pyramidal type includes one selected, *T. media hatfieldi*.

Large, ten to twenty-five feet, broad, pyramidal includes one selected, *T. cuspidata capitata*, and one secondary, *T. cuspidata columnaris*.

Dr. Chadwick showed colored slides of most of the foregoing varieties and pointed out some of their characteristics. His comments will be presented fully in a succeeding issue.

Agricultural Commissioner Speaks.

The evening banquet was in the form of smorgasbord, enjoyed by 110 persons. President Ken Law announced that this was the twenty-fifth meeting of the Minnesota State Nurserymen's Association, organized in 1927. Four past presidents were deceased—J. V. Bailey, C. N. Ruedlinger, R. D. Underwood and John K. Andrews—and a moment's rising recognition of them was observed. The other past presidents were called upon to take a bow—C. H. Andrews, D. M. Mitchell, B. J. Loss, Vincent Bailey, Frank Siefert, Paul Peters and Robert Wedge.

Myron W. Clark, recently appointed commissioner of agriculture for the state of Minnesota, spoke on "The State Nursery Inspection Service and What It Means to the Com-

ROSES

"Quality Our Hobby"

California two-year-grown bush, floribunda and climbing varieties.

Nonpatented varieties (indicated without *)	Per 10	Per 20	Per 100
Retail Price on Patented Varieties	\$ 4.50	\$ 9.00	\$ 45.00
*\$1.25 rose wholesales for.....	7.00	12.00	60.00
** 1.35 rose wholesales for.....	7.50	13.00	65.00
*** 1.50 rose wholesales for.....	9.00	15.00	75.00
**** 1.75 rose wholesales for.....	10.00	18.00	90.00
***** 2.00 rose wholesales for.....	11.00	20.00	100.00

No. 1½ available at 20 per cent discount.
*After variety, available in No. 1½ only.

HYBRID TEAS, Red

- ***Applause
- ***Best Regards
- ***Fandango
- ***Nocturne*
- ***Rubalyat
- ***San Fernando

HYBRID TEAS, Pink

- ***Capistrano
- ***Countess Vandal
- ***Mission Bella
- ***Santa Anita
- ***Show Girl
- ***Susan Louise

HYBRID TEAS, Two-tone

- *California
- Contrast
- **Mark Sullivan
- Talisman
- ****Tallyho*

HYBRID TEAS, Yellow

- Crown of Gold
- ***Debonair
- ***Golden Harvest
- ****Peace
- ***San Luis Rey
- ****Sutter's Gold

HYBRID TEAS, White

- ***White Wings*

HYBRID TEAS, Multicolor

- ***Taffeta

FLORIBUNDAS

- ****Fashion
- *Imp. Cecile Brunner
- ***Pink Bountiful*
- ***Pinocchio
- ***Red Pinocchio
- **Summer Snow
- **World's Fair

CLIMBERS

Red

- ****Crimson Glory
- Etoile de Hollande

Pink

- Belle of Portugal
- ***Dr. J. H. Nicolas
- ***Picture
- ***Santa Anita

Yellow

- ***Golden Dawn
- Gold Rush
- ****High Noon

Multicolor

- ***Hinrich Gaede
- ***Mrs. Sam McGredy

White

- K. A. Viktoria

Shipments Made in Late December, January and February.
(Wholesale Only)



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munity." He outlined the activities of the service and its functions relating to the nursery industry and to the public.

Entertainment by the Elksters of Red Wing, Minn., concluded the evening.

Business Session.

Committee reports occupied most of the morning session December 5.

Details of the group insurance program adopted were presented by A. B. Franzen, of the Hardware Mutuals Insurance Companies. The first policies were issued April 8, 1949, and eighteen members have covered their employees. Available is group insurance on hospital, surgery and in-hospital medical expenses. Premiums so far total about \$2,300, while claims to date total about \$1,600. Other members of the Minnesota Association may obtain coverage by applying to the secretary or the insurance company office.

For the public relations committee appointed a year ago, Kimball D. Andrews, chairman, reported that its initial activity was carrying out

the "Plant Minnesota" program as a part of the A. A. N. "Plant America" program. Departments of the state government have been asked to appoint members of a committee, and a proclamation by the governor is awaited. Mr. Andrews told of A. A. N. promotional material available and commented on the program in other states.

As chairman of the fruit breeding farm visiting committee of the Minnesota State Horticultural Society, B. J. Loss reported on the unsatisfactory conditions found over a year ago and the efforts that resulted in the expenditure of \$25,000 for building repairs, equipment, etc. To obtain funds that will permit research in ornamentals as well as fruits, his committee had prepared a resolution, already adopted by the horticultural society and other bodies, asking the legislature to increase the university's appropriation for agricultural undertakings. This was adopted by the nurserymen's association, and praise was given Mr. Loss for his work.

T. L. Aamodt, state entomologist, reviewed some of the work of the



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nursery inspection division. He emphasized that its goal is maintaining a staff of competent men to accomplish the desired program through the voluntary cooperation of the persons affected, including the nurserymen themselves. He urged them to be awake to the possibilities in this direction. Other topics on which he touched briefly were the perils of biological warfare, the work of the national and regional plant boards, the dangers of introduction of foreign pests, the stone fruit virus control program, the orchard spray warning service, the barberry eradication regulations and oak wilt. He expressed the opinion that the nursery industry of the state had never been in so sound and stable a condition as it is today.

A. A. N. Officers Speak.

The American Association of Nurserymen was represented on the program by its president, Wayne Ferris, Hampton, Ia.; vice-president, John Wight, Cairo, Ga., and the regional director, Vernon Marshall, Arlington, Neb.

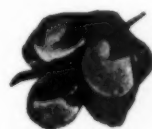
Mr. Ferris explained that Executive Secretary White was kept at Washington by meetings of committees advisory to government departments there during the week. He detailed some of the current activities of the national association.

He urged emphatically that the questionnaires of the federal bureau of the census be returned by each nurseryman promptly if he has not already done so, as accurate and complete statistics regarding the horticultural industry are much needed by those engaged in it.

President Ferris warned of the possibility of wartime controls early in 1951 and the scarcity of supplies and manpower. There should be a good demand for nursery stock, and he thought the outlook encouraging.

Vice-president John Wight outlined other projects of the A. A. N. The Association of Nursery Trade Association Secretaries is to be aided further by the preparation of a secretary's manual. Group insurance plans are going forward, and a questionnaire returned by members indicated much interest. Attraction of New Orleans as the convention city next July were set forth; early phases of program preparation have been completed, and Mr. Wight was emphatic in his invitation to attend.

Vernon Marshall reported that A. A. N. members now totaled 1,328, but called attention to the fact that nearly 1,000 additional firms had been approached on the subject, so



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that room for further increase remained ample.

He detailed the sales aids supplied to members through the Washington office and urged their more extensive use. They will help nurserymen obtain a large share of the consumer's dollar.

Harold Reid, for the state fair grounds planting committee, reported that discussions had gone forward with the fair board officials, who appreciated the proffered aid of the association in planning and planting the grounds.

Concluding Session.

The Tuesday afternoon session was chiefly devoted to a panel discussion in which a wide variety of questions was tossed at Dr. L. C. Chadwick, W. R. Leslie and Dr. W. H. Alderman. Discussion on the points raised was fragmentary, and the search for information on recent difficulties with some spruces and conifers was inconclusive.

Dr. Alderman closed the convention with a shorter talk than usual on new fruits, displaying no apples this year, but relying on colored slides shown by Kimball Andrews with his equipment.

North Star cherry, or Minnesota No. 58, was praised by Dr. Alderman for its heavy bearing, size, quality, earliness and hardiness.

Lakeland apple, No. 978, he described as a well colored red that does not cluster, is hardy, fruits every year and fruits in the Wealthy season or a little later.

Descriptions of both these new varieties will be published shortly in a bulletin and in the Minnesota Horticulturist.

The reports on recent introductions in apples and the possibilities of some small fruits coming along were covered briefly.

Convention Notes.

At the noon luncheon Tuesday for A. A. N. members, R. N. Ruedlinger was elected delegate and Vincent Bailey alternate to the national convention at New Orleans next July.

Paul Eddy, of Howard Lake & Victor Nurseries, Howard Lake, will take his seat in the legislature in January as state representative.

HOLLY SOCIETY MEETS.

[Continued from page 14.]

and experiences with the American and exotic hollies. He had just returned from a trip to England and showed colored slides of hollies at the Royal Botanic Gardens at Kew.

Mr. Nearing dwelt at some length

on the selection of superior clones of American holly. It is becoming evident that, although there exists much variation among these hollies, the finest of these selected clones tend to resemble each other in appearance and habits.

Now, Mr. Nearing stated, it is time to set up another ideal to be worked for, and this other ideal is maximum variation. We want the biggest leaf, but also the smallest, the narrowest and the broadest one. Each of these leaf shapes must be accompanied by real beauty of texture and growth habit. Leaf shape is only one of many possible variations. There may be an extreme dwarf, a weeping form and, to satisfy certain tastes, the leaf color variegated with yellow and white.

In our search for variations, Mr. Nearing continued, we must remember that such variations occur most freely when two or more species can be crossed together and complex hybrids created. The hollies of Europe, he stated, are not a single species, but consist of at least two and perhaps four species, each handsome in its own way, all crossing easily and capable of being crossed with the best of the hardier species from eastern Asia. Our American holly has no such decorative allies. We must go far afield to find species with which it will cross at all. Hence, we must either use extreme ingenuity to produce what breeders call a break, or else we must select the foreign species for greater hardiness and cross them to secure our variation.

At the close of the meeting, Vice-president Harry W. Dengler, extension forester, University of Maryland, College Park, revealed that invitations have been extended to the society to meet in the future at the Brooklyn Botanic Garden, Brooklyn, N. Y., at the Massachusetts Horticultural Society, Boston, and at the Jenkins Hemlock Arboretum, Mount Airy, Philadelphia.

Bulletin No. 4, the latest publication of the Holly society, was made available to the group. Two important topics were included: "Holly Hybridizing Techniques," by Jonathan W. Wright, geneticist, northeastern forest experiment station, Upper Darby, Pa., and "The Use of American Holly in the Landscape Plan," by Raymond P. Korbobo, associate extension specialist in ornamental horticulture, Rutgers University, New Brunswick, N. J. Bulletin No. 4 was printed and distributed at no expense to the society by the courtesy of the New Jersey Silica Sand Co.

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MUSCARI (Grape Hyacinth), 7 to 8 cm., \$2.00 per 100.

DUTCH IRIS. \$5.00 per 100. Yellow Queen (yellow), 8 to 9 cm.; Excelair (white), 7 to 8 cm.

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Elder, Golden	6.00
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Red-berried	5.00
canadensis	3.00
Hydrangea P.G.	5.00
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Privet, Amur	3.00
Regel (true)	3.00
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Honey-suckle, Morrowi	3.00
bella albidia	3.00
bella rosea	3.00
tat. rosea	4.00
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	Per 100	Per 1000
Scotch Pine, 2 yrs., 4 to 8 ins.	\$ 5.00	\$25.00
Scotch Pine, 2 yrs., 2 to 4 ins.	4.00	15.00
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Austrian Pine, 2 yrs., 4 to 6 ins.	5.00	25.00
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3 to 7 ins.	8.50	40.00
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4 to 8 ins.	7.00	35.00
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TRANSPLANTS.

Scotch Pine, 2-1, 5 to 8 ins.	7.50	45.00
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Cash, or 25 per cent discount with order, balance C.O.D. 5 per cent discount on quantities of 25,000.		

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Packing without cost when cash accompanies order.

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	R.C.	Pot Plants
	Per 1000	Per 1000
Baker Arborvitae	\$ 80.00	\$150.00
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Bonita Arborvitae	80.00	150.00
Golden Ball Arborvitae	100.00	170.00
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1500 White and Norway Spruce.

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2 to 4 ft., well filled, \$2.00

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500 Pfitzer Juniper, 18 to 24 ins., heavy 2.00

400 Pfitzer Juniper, 24 to 30 ins., heavy 2.25

700 Woodwardi Globe Arb., 18 ins., heavy, 1.25

1000 Hemlock, 3 to 4 ft., well filled, 3.00

3000 Chinese Chestnut, 2 to 3 ft., 50c; 3 to 4 ft., 60c; 4 to 5 ft., 70c each.

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Per 100

Juniperus Von Ehron, 2 1/2-in. pots, 9 to 12 ins., \$30.00

Juniperus Andorra, 2 1/2-in. pots, 6 to 8 ins., 20.00

Above potted liners are now growing in greenhouse. Shipment May 1 to 15.

Juniperus pfitzeriana, XX, field, 8 to 12 ins., 40.00

Cash with order, packing free.

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LINING-OUT STOCK.

1-yr. bedded.

	Per 100	Per 1000
Taxus hicksii	15.00	125.00
Taxus cuspidata	15.00	125.00
Taxus hatfieldi	17.50	150.00
Taxus brevifolia	20.00	200.00
Taxa canadensis, 4 to 6 ins.	7.00	60.00
3-yr. tr., 6 to 9 ins.	11.00	100.00
4-yr. tr., 9 to 12 ins.	16.00	150.00

Complete list of liners on request.

VERKADE'S NURSERIES Wayne, N. J.

EVERGREEN SEEDLINGS. Per 100 Per 1000
 Scotch Pine, 2-0, 3 to 8 ins. \$3.00 \$20.00
 Jap. Red Pine, 2-0, 3 to 6 ins. 3.00 20.00
 White Spruce, 2-0, 1 to 4 ins. 2.50 15.00
 White Pine, 3-0, 4 to 8 ins. 4.00 20.00
 Black Hills Spruce, 3-0, 6 to 8 ins. 5.00 35.00
 Norway Spruce, 3-0, 6 to 8 ins. 5.00 35.00
 Cash with order, please.
ARTHUR CASH NURSERY
 Angola, N. Y.

Each
 Arborvitae, Globe, 18 to 24 ins. \$2.00
 Arborvitae, Siberian, 18 to 24 ins. 2.25
 Arborvitae, Siberian, 2 to 2½ ft. 2.25
 Biota aurea nana, 18 to 24 ins. 2.25
 Biota aurea nana, 2 to 2½ ft. 2.50
 Prices apply on lots of 25 or more of a size and variety.
 F.O.B. Clyde, Sheared and of highest quality. We invite your inspection.
THE CLYDE NURSERY Clyde, Ohio

Per 100
 Hill's Golden Pfitzer Juniper, 2½-in. pots, 6 to 8 ins. \$20.00
 Sabina Von Ehren Juniper, 2½-in. pots, 8 to 10 ins. 20.00
 Euonymus japonicus, 2½-in. pots, 6 to 8 ins. 15.00
 25 per cent with order, balance C.O.D.
BOURDET FLORAL CO.
 1285 Hiway 66 St. Louis 15, Mo.

EVERGREEN PLANT MATERIAL.
ADVANCED LINERS in Azalea, Cornus, Cotoneaster, Ilex, Juniperus, Kalmia, Leucotheca, Pieris, Rhododendron, Taxus, Thuja, Tsuga, Viburnum.
 Finished Trees in Colorado Blue Spruce.
 All Certified for Western Shipment.
 Write for Wholesale Price List.
H. W. WEBER EVERGREEN NURSERY
 16 Summer St. Weston 33, Mass.

NORWAY SPRUCE.
 Twice transplanted and regularly sheared.
 Dark green foliage.
 Each
 2 to 5 ft. \$2.00
 3 to 4 ft. 3.00
 4 to 5 ft. 3.50

B&B at the nursery.
SCHNEIDER'S NURSERY
 Bowie, Maryland

JUNIPER GRAFTS.
 Order now to insure spring delivery. Then we can graft as per your order in any of the following varieties: Regular, Blue or Compact Pfitzers, Canariti, Glauca, Burki and Columnaris Junipers. 40c each; 37½c each per 1000.
ADAMSON NURSERY
 Palmyra, Ind.

BOXWOOD, OLD ENGLISH.
 Handsome specimens, 16 to 24 ins. in diameter and height, well shaped, \$7.00 each and up. Special price on 100.
SHADY LAWN NURSERY
 Hammononton, N. J.

TAXUS, CAPITATA AND CUSPIDATA. Per 100
 Strong rooted cuttings, 6 to 8 ins. \$ 8.00
 2-yr. plants from 2½-in. pots. 25.00
 Cash with order, please.
SINGER GARDENS, Stamping Ground, Ky.

UNROOTED CUTTINGS OF PFITZER JUNIPER, 8 to 10 ins. long, not trimmed. Moss packed; express only, \$10.00 per 1000.
 Cash with order.
KRONE'S FLOWER SHOP
 4221 Grand Ave. Fort Smith, Ark.

EUONYMUS RADICANS VERTICILLATUS. Per 100 Per 1000
 Strong rooted cuttings. \$8.00 \$75.00
PLANE VIEW NURSERY
 Newport, R. I.

Our complete list of lining-out stock covering both broad-leaved and coniferous evergreens, shrubs, etc., is now ready for mailing upon receipt of your request.
T. G. OWEN & SON, Inc. Columbus, Miss.

5000 Pfitzer's, size 2½, pinched; price, 16c to 20c each.
 10,000 rooted cuttings, 10c each.
CHARLES J. SANDERS
 Monongahela, Pa.

NANDINA SEEDLINGS.
 Ready to pot, \$20.00 per 1000, postpaid.
DUNLAP NURSERIES Knoxville 16, Tenn.

Quick — Convenient — Cheap!
 Selling through the Classified Ads of the American Nurseryman.

FRUIT TREES

LOOK!
SURPLUS 2-YR. APPLE.
 Graded to A. A. N. Standards.
 Twelve leading varieties.
 Now booking for Fall or Spring deliveries at these attractive low prices:

Each
 7/16-in. cal., 3 to 4 ft. \$0.16
 9/16-in. cal., 4 to 5 ft. .20
 11/16-in. cal., 5 to 6 ft. .25
 Also limited supply of 2-yr. Pear. Trade list on request.

PACK TRUE-TO-NAME NURSERY CO.
 Phone 82-Y
 McMinnville, Tenn.

FRUITS, NUTS AND FLOWERING TREES.

JUNE-BUDDED PEACH. Each
 3 to 4 ft. \$0.30
 5 to 6 ft. .20
 7 to 8 ft. .15
 9 to 10 ft. .10
 12 to 18 ins. .10
 Varieties: Ambergem, Belle of Georgia, Champion, Dixigem, Dixired, Elberta, Gemmer's Late Elberta, Sullivan's Early Elberta, Golden Jubilee, Halehaven, Hiley Belle, Early Hiley, J. H. Hale, Indian Red, Mayflower, Redhaven, Red Bird, Shipper's Red.

TWO-YEAR APPLE. Each
 11/16-in. and up, well br. \$0.35
 5/16-in. and up, well br. .30
 7/16-in. and up, well br. .25
 Varieties: Anoka, Cortland, Yellow Delicious, Dark Red Delicious, Early Harvest, Grimes Golden, Hackworth, All-red Jonathan, Maiden Blush, Lodi, Red Northern Spy, Red Rome Beauty, Stayman Winesap, Turkey Winesap, Yates, York Imperial and Transcendent Crab.

PLUM, DAMSON AND PRUNE. Each
 4 to 6 ft., well br. \$0.40
 3 to 4 ft., well br. .30
 2 to 3 ft., well br. .20
 18 to 24 ins., part. br. .15
 Varieties: Abundance, Burbank, Bruce, Red June, Sapa Plum, Shropshire Damson, Stanley Prune.

APRICOT AND NECTARINE. Each
 4 to 6 ft., well br. \$0.55
 3 to 4 ft., well br. .45
 2 to 3 ft., well br. .30
 18 to 24 ins., part. br. .20
 Varieties: Moorpark, Early Golden, Superb. Grafted Pecan Trees.

Each
 5 to 6 ft. \$1.75
 4 to 5 ft. 1.35
 3 to 4 ft. 1.00
 2 to 3 ft. .90
 18 to 24 ins. .80
 Varieties: Stuart, Success, Money-maker.
FLOWERING CRAB. Each

Each
 5 to 6 ft., well br. \$0.65
 4 to 5 ft., well br. .45
 3 to 4 ft., well br. .35
 2 to 3 ft., well br. .25
 18 to 24 ins., branched. .20
 Varieties: Eleyi, red; Hupa, rose; Floribunda.

FLOWERING PEACH. Each
 4 to 5 ft., well br. \$0.45
 3 to 4 ft., well br. .35
 2 to 3 ft., well br. .25
 18 to 24 ins., branched. .20
 Varieties: Double Red and Double White.
WHITE-FLOWERING DOGWOOD. Each

Each
 4 to 5 ft., well br. \$0.90
 3 to 4 ft., well br. .65
 2 to 3 ft., well br. .40
PURPLE-LEAF PLUM. Each

Each
 2 to 3 ft. \$0.40
 18 to 24 ins. .30
 12 to 18 ins. .20
 Varieties: Prunus cistena; Thundercloud.
 Write for special quotations on quantity lots.
CUMBERLAND VALLEY NURSERIES, Inc.
 McMinnville, Tenn.

SURPLUS FRUIT TREES.

Per 100
APPLES—2-yr.
 1-in. caliper, 6 ft. up. \$35.00
 11/16-in. caliper, 5 to 6 ft. 25.00
 9/16-in. caliper, 4 to 5 ft. 20.00
 7/16-in. caliper, 3 to 4 ft. 15.00
Early Harvest Winesap
Mam. Bik. Twig Bonum
Horse Stayman
Red Delicious Car. Red June

PEACHES
 7/16-in. caliper, 3 to 4 ft. 30.00
 5/16-in. caliper, 2 to 3 ft. 20.00
 Belle of Ga. Elberta
 Greensboro Golden Jubilee
 J. H. Hale Stump

KIFFER PEAR—2-yr.
 1-in. caliper, 6 ft. up. 60.00
 11/16-in. caliper, 5 to 6 ft. 50.00
 9/16-in. caliper, 4 to 5 ft. 40.00
CHERRIES—2-yr.
 11/16-in. caliper, 6 ft. up. 80.00
 9/16-in. caliper, 5 to 6 ft. 60.00
 7/16-in. caliper, 4 to 5 ft. 50.00

Black Tartarian May Duke
 Gov. Wood McClenn Black
 25 of a variety and size at 100 rate. Offered subject to prior sale. Cash or C.O.D.
 Write for prices on evergreens, Grapevines, etc.

NORTH STATE NURSERY CO.
 JULIAN, N. C.

PECANS.
 Stuart, Mahan, Success, Money-maker, Moore, Burkett, Schley, Western Schley and other popular and profitable catalog items. Thomas Black and Wilson Wonder English Walnuts, Eureka and Tanenashi Persimmons. Write for advance trade list.
ARP NURSERY CO.

Tyler, Texas

Peach, Plum, Apricot, Fig, Persimmon, Pecan, in fact anything you might need.

Write for our price list.
FITZGERALD'S NURSERY
 Stephenville, Texas

PEAR TREES.

10 trees or 50,000 trees.
 Le Conte, Garber, Kleffer, Douglas, Baldwin, Orient, Pineapple, Bartlett, Biscamp, Lincoln and others. Each
 2 to 3 ft. \$0.25
 3 to 4 ft. .35
 4 to 5 ft. .40
 5 to 6 ft. .45
 6 to 7 ft. .50
 7 to 8 ft. .55
 Write us about any big order for orchard planting.

We have a few thousand P. calleryana seedlings to offer the trade this season in sizes from 16 to 24 ins., well calipered. Apparently the best understock for long-life pear trees. Ask for our list. Satisfied customers throughout the southwest are our best references.

WHITEROCK NURSERIES
 Geo. M. Jeffus, Mgr.
 Crockett, Tex.

GRAPE VINES

Twenty of the best varieties of grapes. Lowest wholesale prices on CONCORD, NIAGARA, FREDONIA. List includes fine table varieties, PORTLAND, ACO, SHERIDAN. Unusual kinds, such as GOLDEN MUSCAT and CONCORD SEEDLESS.
 Write for prices along with complete list of berries.

CONGDON'S WHOLESALE NURSERY
 North Collins, N. Y.

GROUND COVERS

PACHYSANDRA TERMINALIS.
 Strong, 1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PLANTS

DELPHINIUMS.
 Strong, 1-yr., field-grown transplants.
 Per 10 Per 100
 Belladonna, Cliveden Beauty, light blue \$1.25 \$10.00
 Bellamosum (Imp.), dark blue, 1.25 10.00
 Blackmore & Langdon hybrids, 1.50 12.00
 Gold Medal hybrids, 1.25 10.00
 Lamartine, dark blue, 1.25 10.00
 Galahad, Pacific hybrids, white 1.75 15.00
 Pacific hybrids, mixed, 1.50 13.00
 Wrexham or Hollyhock strain, light and dark shades, 1.50 12.00
 Cash, please, or C.O.D. orders.
HENRY LE POIRE, Rt. 2, Zeeland, Mich.

New Crop Seed.
THE DELPHINIUM OF TOMORROW.
LYONDEL GIANT HYBRIDS.
 Massive Spikes, Stately, Majestic, Colorful. A new strain especially selected for its large-size flowers and wide range of beautiful colors. Doubles, semidoubles, singles. Extremely hardy. Mixed only. Seeds from carefully selected plants.
 \$6.00 per ¼ oz., \$11.00 per ½ oz., \$20.00 per oz.
CORLISS BROS., Inc., NURSERIES
 Reynard St. Gloucester, Mass.

HARDY CHRYSANTHEMUM CUTTINGS.
 It is time to think of Hardy Chrysanthemum cuttings for spring delivery. A complete list of the best varieties is now available. Request a copy on your business stationery, please.
FRED C. GLOBEKNER & CO., Inc.
 15 East 26th St. New York 10, N. Y.

PINK SACHET.
 Introducing a new Old-Fashion Pink. Large (2-inch) single, pink flowers with maroon center. Fragrant, hardy, with good foliage. Excellent for cutting. 10-inch stems.
 Doz. 100
 Strong rooted cuttings, \$4.00 \$35.00
PLANE VIEW NURSERY, Newport, R. I.

BLEEDING HEARTS. Per 100
 Dicentra Spectabilis, 2 to 5. \$25.00
 Dicentra Spectabilis, 5 to 8 and up. 35.00
 Dicentra Eximia, 3 to 5. 15.00
 Dicentra Eximia, 5 to 8 and up. 20.00
J. HENDRIKS, GROWER,
 PORTAGE, MICH.

PERENNIALS.
 New and Standard Kinds.
 A most modern and complete selection.
 New Wholesale List now ready.
 Send for your Free Copy Now.
CARROLL GARDENS
 Box 15 Westminster, Md.

AQUILEGIA (Columbine).
 Strong, 1-yr. field-grown transplants.
 Per 10 Per 100
 Mrs. Scott Elliott, pastel shades, 1 and 2-yr. \$1.25 \$10.00
 Cash, please, or C.O.D. orders.
HENRY LE POIRE, Rt. 2, Zeeland, Mich.

PHLOX.
 Be sure you have our new list of Hardy Phlox and other perennials before you place an order for your plants this fall. Write for list. Shipping now.
HENRY LE POIRE, Rt. 2, Zeeland, Mich.

Pansies, perennials and rock plants in wide variety. Send for catalog.
PITZONKA'S PANSY FARM
 Bristol, Pa.

HARDY PLANTS—Continued

HARDY PLANTS.

See our ad in November issues. Chrysanthemums, Phloxes, Daisies, Buddleias, Lythiums, 400 other perennials, Irises, Alliums. HILLVIEW GARDENS, Ft. Madison, Ia.

America's Best Source
For Hardy Plants Is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

See the October 1 issue of the American Nurseryman for list of Hardy Plants.
RICHARDS GARDENS
"Old Homestead Brand"
Box 10 Plainwell, Mich.

HARDY PLANTS.
Please write for our new list of perennial plants.
WALTERS GARDENS
Zeeland, Mich.

See the October 1 issue of the American Nurseryman for list of Delphiniums.
RICHARDS GARDENS
"Old Homestead Brand"
Box 30 Plainwell, Mich.

HARDY PHLOX.
Please ask for our new list on 1-year, field-grown Phlox.
WALTERS GARDENS
Zeeland, Mich.

HOLLY

AMERICAN HOLLY (Hex Opaca).
Liners. Specimens to 16 ft.
Send for free booklet.

EARLE DILATUSH, Holly Specialist
Rt. 25 (near Trenton), Robbinsville, N. J.

IVIES

IVIES—Hardy English, both large and small-leaved; strong 2-in., \$8.00 per 100, \$75.00 per 1000; rooted cuttings, \$2.50 per 100, \$22.50 per 1000. Hahn's, 2-in., sc. Baltica, 2-in., 10c.

JACOB SCHULZ
831 Cherokee Rd., Louisville 4, Ky.

ROSEBUSHES

ROSEBUSHES.
CALIFORNIA-GROWN.

In order to overcome the recent disastrous freeze to the Texas rosebush industry, we were fortunate enough to secure CALIFORNIA-GROWN Rosebushes for our regular customers. The following varieties are in surplus and will go to the first who ask for them.

200 Autumn
1500 Condesa de Santiago
1500 Christopher Stone
1200 Duquesa de Penaranda
1500 Etoile de Hollande
1100 Floradora
1300 Girona
1350 Hinrich Gaede
1200 J. O. Thilow
1700 K. A. Viktoria
1400 McGredy's Yellow
1600 McGredy's Scarlet
1800 Mrs. F. S. duPont
1400 Mrs. E. P. Thom
1250 Night
200 Pres. Hoover
1400 Poinsettia
1300 Red Talisman
1700 Pink Radiance
100 Red Hoover
300 Rowena Thom
200 Contrast
200 Dame Edith Helen
200 Golden Dawn
1500 Golden Rapture
200 Margaret McGredy
200 Red Ripples
1700 Red Radiance
1200 Rose Marie
1300 Dainty Bess
1600 Soeur Therese
1500 Talisman
2000 Frau Karl Druschki
800 Caledonia
300 E. G. Hill
140 Los Angeles
250 McGredy's Ivory
100 Sunkist

CLIMBERS

400 Cecile Brunner
1000 Condesa de Santiago
800 Etoile de Hollande
5000 Paul's Scarlet
1500 Hadley
1200 Mrs. E. P. Thom
1000 Talisman
700 Pres. Hoover
1200 Red Talisman
300 Rose Marie
250 Belle of Portugal
200 Snowbird

No. 1 grade, 58c each;
No. 1½ grade, 47c each.
Prices F.O.B. Winnsboro, Texas.
Terms: 25 per cent with order, balance before shipment, or C.O.D.
Rosebushes will be shipped any time you desire after January 15.

RUSSELL WILSON NURSERY
Winnsboro, Texas

WHY BE SATISFIED WITH LESS THAN THE BEST? CO-OPERATIVE ROSE GROWERS is composed of some fifty nurserymen who take great pride in producing the best in 2-yr. rosebushes. Co-Op rosebushes are dug and stored in cold-storage rooms, still and added expense, but assuring you, as always, the best quality roses at reasonable prices. Why run the risk of using roses that have been subjected to freezing temperatures?

Complete price list of bare-root and packaged roses available to licensed nurserymen, florists and dealers only. Write today.
CO-OPERATIVE ROSE GROWERS
Wholesale Exclusively
Phone 2-0122

P. O. Box 808 Tyler, Tex.

ROSEBUSHES—2-yr. plants, grown right, graded right, packed right. Very complete assortment of varieties. Ask for price list and book your requirements now.
ROSEMONT NURSERIES
D. L. Thompson, Mgr.
Box 839 Tyler, Tex.

SEEDS

Seeds, Collected and Cleaned Fall, 1950.

	Per lb.
Acer platanoides	\$1.00
Aesculus hippocastanum	.35
Chaenomeles japonica	3.50
Cotoneaster divaricata	2.25
Cotoneaster racemiflora	7.00
Crataegus crusgalli	2.50
Kolkwitzia amabilis (4 lb.)	4.50
Platanus orientalis	1.25
Prunus americana	1.25
Rhus cotinus	1.80
Sorbus aucuparia	3.50
Viburnum opulus	2.75

Samples will be sent on request.
Will trade seed for wanted varieties.
ILGENFRITZ NURSERIES, Inc.
Monroe, Mich.

FRESH NORFOLK SEEDS.

Write today for prices.
ALBRIGHT'S NURSERY
Superior, Wis.
Oregon-grown New Crop
Hardy Polyantha Primrose Seeds.
Newer colors, large florets.
Trade pkg., \$1.00; 7 pkgs., \$5.00.
PRIMROSE ACRES Gladstone 4, Ore.

SHRUBS and TREES

LINERS, QUALITY PLANTS.
Spring or Fall Delivery.

	Each
Azalea, Mollis Cream, 2 to 4-in.	\$0.08
Andromeda (Pieris), 4 to 6-in., C. N.	.20
Cholysa ternata, 8 to 10 ins., XX	.35
Daphne mezereum, 6 to 8 ins., X	.12
Daphne mezereum, 8 to 10 ins., X	.17
Daphne mezereum, 10 to 12 ins., X	.22
Daphne odora, 6 to 8 ins., frame	.35
Daphne odora, 8 to 10 ins.	.45
Heather, mediterranea, 2 to 4-in. spread	.15
Heather, mediterranea alba, 2 to 4-in. spread	.15
Heather, Springwood White, 2 to 4-in. spread	.15
Heather, carnea, 2 to 4-in. spread	.15
Cypress, nestoides, X, fld.	.20
Thuja lobbii, 4 to 6 ins., X, fld.	.17
Thuja lobbii, 6 to 8 ins., X, fld.	.20
Thuja woodwardia, globe, 6 to 8 ins., X, fld.	.18
Skimmia japonica, 4 to 6 ins., X, fld.	.35

Cash with order, F.O.B. Shipped express.
FOUR STAR NURSERY
Rt. 3, Box 3629 Edmonds, Wash.

MIMOSA.

Albizia Julibrissin.
Now booking orders for future delivery at rock-bottom prices for clean, well grown, healthy stock of this popular, most beautiful, small, pink-flowering tree. Easy to transplant. Grows quickly.

	Per 100	Per 1000
6 to 10 ins.	\$2.50	\$20.00
12 to 18 ins.	4.00	30.00
24 to 30 ins.	5.00	35.00
36 to 40 ins.	10.00	70.00
66 at 100 rate, 500 at 1000 rate.		
3 to 4 ft. transplants	17.00	100.00
4 to 5-ft. transplants	30.00	225.00
6 to 7-ft. transplants	65.00	
7 to 8-ft. transplants	90.00	

Not less than 10 at 100 rate.
RIEGL PLANT CO.
Experiment, Ga.

Ohio's oldest nursery offers you red and green Barbary. Grown right. Graded right. Berberis thunbergii (Red-leaved Barbary).

	Per 10	Per 100
12 to 15 ins., 3-yr., Tr.	\$2.00	\$17.50
18 to 24 ins., 3-yr., Tr.	3.50	30.00
24 to 30 ins., 3-yr., Tr.	4.00	35.00

Berberis thunbergii (Green-leaved Barbary).
Per 10 Per 100
12 to 18 ins., 3-yr., Tr. \$2.00 \$15.00
18 to 24 ins., 3-yr., Tr. 3.00 25.00

Cash with order. Boxing free. Est. 1877
CALL'S NURSERIES
Call Road Perry, Ohio

MIMOSA (Silk tree).

	Per 100	Per 1000
Albizia Julibrissin	\$28.00	
6 to 12 ins.	\$3.50	
12 to 24 ins.	8.00	70.00
2 to 3 ft.	18.00	160.00
3 to 4 ft.	25.00	230.00
4 to 5 ft., 2-yr.	35.00	350.00
5 to 6 ft., 2-yr.	55.00	500.00
6 to 7 ft., 2-yr.	75.00	

300 at the 1000 rate.
These trees are grown from the best deep pink flowering trees that we know of in Oklahoma. In this way we strive for permanent satisfaction. This should mean a lot to you and your customers.

Liberal Grading—No Packing Charge.
WARREN & SON'S NURSERY
Rt. 4, Box 135-C Oklahoma City, Okla.

SHADE TREES.

	Each	Each	Each
Thornless Honey Locust	per 10	per 100	per 1000
4 to 6 ft.	\$0.45	\$0.40	\$0.35
6 to 8 ft.	.75	.70	.65
8 to 10 ft.	1.00	.90	.80
1 to 1½ in.	1.50	1.40	1.30
1½ to 2 in.	2.00	1.85	1.70
2 to 2½ in.	2.50	2.35	2.20
2½ to 3 in.	3.00	2.80	2.60

FARMER NURSERY
Plainview, Tex.

Ginkgo biloba, liners.

	Per 100	Per 1000
2 to 4 ins.	\$3.00	\$25.00
4 to 6 ins.	4.00	35.00
6 to 8 ins.	5.00	45.00

Berberis thunbergii (Red-leaved Barbary), transplants. Inspection certificate No. 75.
12 to 15 ins. 13c each
15 to 18 ins. 18c each
Cash with order. Packing extra.
EDMOND L. BABCOCK NURSERY
32 West Ave. Danville, N. Y.

READY NOW.

4000 Weeping Willow
5000 Lombardy Poplar
and
4000 Silver-leaved Maple.
All well branched, nice trees.
3 to 4 ft., 15c; 4 to 6 ft., 20c; 5 ft., 25c each per 100.
10 per cent off per 1000 or more.
KIRBY'S NURSERY
Mt. Selman, Texas

RED JAP. MAPLE SEEDLINGS.

Selected 100 per cent seed. (Sturdy.)
Per 100 Per 1000
8 to 10 ins., XXX, 3-yr. \$20.00
6 to 8 ins., XXX, 3-yr. 25.00 \$225.00
8 to 10 ins., X, 2-yr. 25.00
6 to 8 ins., X, 2-yr. 22.50 200.00
5 to 8 ins., X, 1-yr. 18.00 150.00
Delivery spring or fall.
ELWOOD HUBBS
204 Delaware Ave. Palmyra, N. J.

Chinese Arborvitae seedlings, strong.

5 to 10 ins. \$25.00
Cedar seedlings, bed-run. 25.00
Cedar seedlings, graded, strong. 35.00
5 to 10 ins. 35.00
Chinese Elm, 3 to 5-in. cal.
Write for special prices.
KLEIN NURSERY Enid, Okla.

LINING-OUT STOCK.

We offer Chinese Chestnuts; Native Shrubs, Trees and Evergreens; Flowering Peach and Ornamental Plums, and Fruit and Shade Trees. Top-quality, dependable plants at reasonable prices.
GLOBE NURSERIES
Box 249 McMinnville, Tenn.

	Per 100	Per 1000
1000 Irish Juniper	\$50.00	\$400.00
1000 Cydonia japonica	30.00	250.00

3000 Japanese Ligustrum, 3c and 6c each.
Many other liners.
The CHALIN LEWIS NURSERY
P. O. Box 83 Piggott, Ark.

VEGETABLE ROOTS

500 CANADIAN RHUBARB.
Large divisions.
\$20.00 per 100; lot for \$85.00.
Packing free.
F.O.B. Marshalltown, Ia.
WHELOCK WILSON NURSERY
Marshalltown, Ia.

MISCELLANEOUS

1000 Kentucky coffee trees, 50,000 Amur River North Privet, 7-in. cuttings, \$2.50 per 1000. Many others, 1000 lbs. Kentucky coffee beans, 25c per lb.
Sycamore (Platanus), 46c per lb. Privet seeds, 90c per lb.
SCHROEDER NURSERY CO.
Granite City, Ill.

DECORATIVES

CHRISTMAS HOLLY.
With berries, 40c per lb.
CHRISTMAS WREATHS.
Made out of running cedar, \$2.00 each.
THEOMIR TREXLER
Seaford, Va.

Freshly cut tips: Norway Pine, Scotch Pine and Norway Spruce, \$4.50 per 100 lbs. Colorado Blue Spruce and White Pine, \$5.50 per 100 in. bales. Cut trees, 3 to 15 ft., 15c per ft. THE PEQUOT NURSERIES, Brainerd, Minn.

WOOD LABELS

DAHLIA OR TREE LABELS.

	Priced per 1000	
3 1/2 x 5/8 ins., notched, not wired...	\$2.50	\$3.00
3 1/2 x 5/8 ins., wired (copper).....	3.30	4.10

POT LABELS.

4x 1/2 ins. (cartons 1000 each)...	3.30	3.95
5x 1/2 ins. (cartons 1000 each)...	3.60	4.30
6x 1/2 ins. (cartons 1000 each)...	3.90	4.85

GARDEN STAKES.

	Priced per carton.	
8x 1/2 ins. (cartons 500 each)....	3.00	3.60
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PLANT NOTES.

[Continued from page 21.]

ana, two feet tall, with soft yellow flowers, fairly hardy; *M. kokanica*, three feet tall, rose-pink, a noble plant of questionable hardiness this far north, although it went through all except the most severe winters; *M. longifolia*, the only one mentioned in Hortus, three feet tall opening light pink, sometimes white, the pink changing to rose and finally to carmine, about the same in hardiness as the first species mentioned, and *M. persica*, three feet tall, light pink, hardiness not fully tested here, as plants were lost during their second summer before a really cold winter touched them.

Helianthus Orgyalis.

All sunflowers seem to have a poor reputation among gardeners, apparently because of the coarseness of some kinds and the invasive habits of others. *Helianthus orgyalis* has neither of these objectionable traits; on the contrary, the species has much to recommend it as a landscape plant. It is a tall, upstanding plant, six to ten feet high, depending upon fertility and moisture, leafy to the top, with narrow, drooping leaves as much as one foot long and never coarse. In well grown plants there is a 3 to 4-foot spike of yellow sunflowers, three or four inches across. In one garden that I know the owner has planted sunflowers among low-growing shrubs, and the effect is excellent.

Lychnis Lagascae.

After an absence of several years from our trials, the appearance last summer of *Lychnis lagascae* reminds me that here is an easily grown rock garden plant of far more importance than its rare occurrence in gardens would indicate. If you are particular about your names, you will call it *Petrocoptis lagascae* after the manner of some modern botanists. Incidentally, the species seems much confused in gardens, for I often find a foot-tall rosy-purple *lychnis* in its place. On the several occasions that I have had it, the species made a favorable impression on me, not only because of its long blooming period, from May well into August, in our normally cool climate, but also be-

cause of its pleasing flower color. In fact, *L. lagascae* is one of the better rockery plants, and its pale to bright rose flowers on 4-inch stems, over tufts of blue-gray leaves, are unof-fending in their brilliance.

Physostegia Virginica Gigantea.

The false dragonhead, *Physostegia virginica*, and its form *Vivid* are deservedly popular plants, especially because of their late flowering season. But these are not the only good kinds of *physostegia*. When available, the variety *gigantea* gives an entirely new conception of this family's landscape value. *P. gigantea* grows vigorously to five or six feet, possibly even higher if given a rich soil and abundant moisture. And it is not such a violent spreader as other *virginica* varieties, using its energy to go upward instead of outward. It is of much value as an accent plant, its only drawback being brittle stems which require staking in exposed situations.

Polygonum Sericeum.

An inquiry on *Polygonum sericeum* sent me scurrying to my notes and to current literature on the subject. Among the former I found the following: *P. sericeum* has been found useful in this severe climate, where so many Asiatic knotweeds are unable to stand our winters. It is, in fact, one of the better polygonums of medium height that can be cultivated here, attaining a height of about two feet and producing spiraealike heads of white flowers in late summer. The trait of summer or autumn blooming, which is characteristic of many polygonums, gives virtue to many a plant which might otherwise be classed with the weeds; that is not necessarily true of our *P. sericeum*, although its flowering time is not held against it. Another thing in its favor is the fact that it does not spread fast from the root. It grows well in ordinary border soil.

A survey of current literature tells me that the plant we have long known in gardens as *P. sericeum* is really *P. alpinum*, according to the botanists. That may explain why the species is hardier than most Asiatic knotweeds, because it also occurs in the Alps of Europe.

Polygonum Sieboldi.

The foregoing *polygonum* note reminds me that I have seen recently at least two articles in amateur garden magazines in which *P. sachalinense* was recommended as a garden plant, especially for tropical effects. A few words of caution should

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be posted, I think, so unsuspecting plant growers will not be taken in by this pest. Beyond a doubt its height of ten feet or more and its large leaves, to one foot in length, fit *P. sachalinense* for the role of a plant for tropical effects; its use in the garden is another matter. Certainly, gardeners should be cautioned to provide some effective curb against this plant's tendency to cover the entire garden.

A far better garden plant, in my estimation, is *P. sieboldi*, or *P. cuspidatum* to some, because it has most of the good points of *sachalinense* and lacks its bad ones. It did not grow taller than six or seven feet in our trials, although it would, no doubt, better that figure by two feet in richer soil. But it is far prettier in flower during August and September when it displays clouds of small white flowers in great drooping sprays. There is, in fact, much to recommend *P. sieboldi* as a garden plant, not the least of which is its nonspreading habit.

Dicentra Sweetheart.

If spring-to-winter production of lovely flowers, clumps of pretty feathery foliage throughout the same long period and perfect ease of culture make an outstanding plant, *Dicentra formosa alba*, called *Dicentra Sweetheart* in most lists, fills the bill. It is, at the same time, unusual enough to put it in the novelty class.

It is essentially a pure white, western bleeding heart, with all the beauty and desirability that description implies, with the added attraction of increased floriferousness of the type. It is easily and rapidly increased by division of the stools in early spring, if greenhouse facilities are not available, or in winter indoors. In the latter case, the divisions are easiest handled in pots. Here is a plant that holds much possibility in the hands of the neighborhood grower. For *D. Sweetheart* can be sold from pots from spring until autumn, for it is ceaselessly in flower, and it is quite sure to give satisfactory results when planted out in part to fairly dense shade, in leafy soil.

Atraphaxis.

A Massachusetts reader who has grown *Atraphaxis frutescens* and liked it asks if there are others of its kind. Although I have had little experience with them, I am of the opinion that some of the species would make good property for the neighborhood grower. That opinion is based on the facts that the plants

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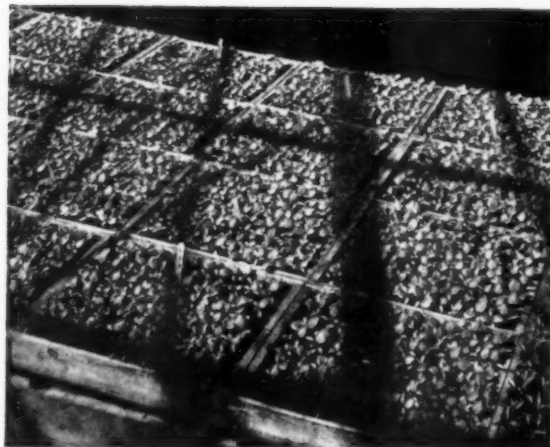
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are rare in this country and that all, as far as I know, are summer-blooming. I know of no American source for either plants or seeds, and seeds are not easy to find in Europe. However, that would not stop the inquisitive nurseryman.

Of small shrubby growth, *A. frutescens* is seldom over two feet high and has terminal racemes of white or pink flowers which remain attractive over a long period, owing to the persistent calyxes. The three kinds that I have had, all from Greece and northern Africa, did not prove hardy here, but if the Massachusetts querist could obtain *A. muschketowi*, with white flowers and showy red anthers, from Turkestan, and *A. spinosa*, from Siberia, and perhaps others from the cold parts of their range, he would have something to add to his present single kind. The plants come readily from spring-sown seeds and are easily grown if kept on the dry side; they are also said to strike readily from greenwood cuttings under glass in early summer.

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SOUTH AMERICAN CITIES AND GARDENS.

[Continued from page 10.]

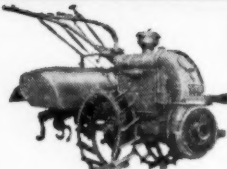
beaches, which stretch for miles. Here the wealthy have their summer homes and vacationers flock to luxury hotels and gambling casinos in season. Here, again, yards are relatively small for the size of the homes, and walls enclose most of them. Large shade trees overhang houses and streets. In the city the new, wide avenues are lined with trees, sycamores being popular for this purpose. Other trees common at Montevideo are willows, poplars, mimosas, palms and eucalyptus. In the Prado one sees, besides roses, many stocks, pansies and callas, lilacs beside orange trees and ivy-covered magnolias and mimosas. There are many peach orchards and vineyards in outlying districts.

Buenos Aires.

A night's trip across the Rio la Plata brings one to Buenos Aires, located 125 miles in from the sea and sixty-five feet above sea level. It is the capitol of Argentina, a relatively new country in South America, being a product of nineteenth and twentieth century development, rather than of Spanish or Portuguese conquest. Buenos Aires, often referred to merely as B. A., is the focus of everything in this country, and it is rightly described as the Paris of the new world. The growth of the city took place under the baroque period of urban architecture and planning. Except for a number of federal and municipal buildings, which are in the Greco-Roman style, most of the city's architecture is largely French Renaissance, especially the older apartment buildings and city mansions. The newer buildings tend toward the stately modern. The fine architecture to be seen throughout the city has been promoted by annual awards of prizes for the most attractive business and residential buildings.

Buenos Aires was originally built on the traditional Spanish rectangular plan around the main plaza, but traffic congestion has made it necessary to cut in diagonal avenues and to build two fine subway systems. The Plaza di Mayo is the main square, and the Avenida di Mayo the main thoroughfare. Under the present regime, the buildings along this avenue have been razed on either side to make it the widest avenue in the world, 120 feet. It is a mile long, and at one end is the commercial district and at the other the industrial

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district. Fine modern buildings line the avenue on either side and rise a uniform six to eight stories high. It is lined with double rows of lights and lanes of trees.

Between the city proper and the suburban districts have been put in beautiful boulevards and parks landscaped with trees and gardens, lakes and statues.

The government has appropriated extensive property for municipal development, and there are over 100 parks covering some 3,000 acres. The Avenida Alvear leads through the most fashionable section of the city to Palermo park, which is partly a public park and partly a wealthy suburb of palatial homes, most of which are planted with roses and bougainvillea. The roads are lined with palms and flowering trees, especially acacias and paraíso palms. The race track nearby is surrounded by eucalyptus, and the center of the track is landscaped with flower beds cut by streams. The municipal botan-

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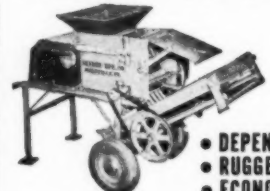
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Argentine Residences.

Most of Buenos Aires is residential, with miles of low, uniform houses set at right angles to the street. A house over sixty years old is considered an heirloom. But these are fast being razed to permit constructions of modern architecture. Where the streets and sidewalks are wide enough, trees are planted in the walks. There are only a few city mansions set back from the street, and these are usually enclosed by great iron fences. Driveways or sidewalks fill most of the small yards. Most of the big old Argentine city mansions have patios, often on the

second floor, where subtropical foliage plants in large pots and tubs give a garden effect. In the best residential districts architecture and landscapes are extremely varied, containing every style imaginable. Nearly all are walled or fenced in, and yards are relatively small but densely planted. Buenos Aires has large colonies of residents from the United States and many European countries. Those that live in the suburbs, where yard space permits, tend to keep their gardens as much like those in their native countries as possible.

Roses, hydrangeas, poppies and lilies are among the most popular garden plants. Palm trees and shade trees are often intermixed in plantings. Here and there one sees old specimens of the ombu, native but now nearly extinct. The ombu looks like a tree, but technically is a shrub. The lower part of its trunk looks like huge bark-covered roots that closely intertwine and cover an area about fifteen feet wide and five or more feet high, a more slender trunk, about the size of that of a mature linden tree, rising out of the center and growing into many fine branches covered with leaves, forming a tracery of twigs and leaves against the sky.

Around El Tigre the gardens abound with roses and hydrangeas. The crimson blooms of the ceibo tree are especially beautiful. Parasitic honeysuckle is seen on many trees.

Across the Pampas.

A hot, dusty 42-hour ride by dilapidated, 50-year-old steam trains takes one across the pampas into the lake regions. The real pampas, on which Argentine's famed cattle feed and Gauchos ride, is covered with tall, plumed grasses, or coarse rushes in the marshy areas. (Tourists revel in the excellent big steak dinners for about a dollar.)

The pampas country is broken by barren, dusty stretches and a few poverty-stricken towns of low, square, adobe, plaster-covered buildings. The big cattle ranches, called estancias, are owned by the favored few. In both Argentina and Chile one can recognize them from a distance by the carefully planted rows of trees that line the roads to the owner's house and surround his yard. These are the only trees on the pampas. Chinaberry is a favorite, especially in the north, since locusts do not attack them, and next most popular is Eucalyptus globulus.

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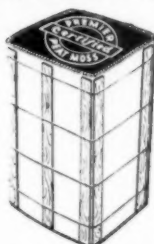
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ests of the north grow the hardwoods whose lumber is used for fencing and railroad ties. Much quebracho, a hardwood yielding tannin for the leather trade, is grown. The number of these trees is restricted, as replacement is almost impossible, for it takes 100 years for this tree to mature. Tree fruits are widely grown. Excellent pears of the best known South American winter varieties, such as Williams (our Bartlett), and peaches thrive on the green El Tigre river delta section near Buenos Aires. Apples do not do well in the spongy soil. They are grown in other sections and are usually from Australian stock. The most popular varieties are Delicious, Jonathan and Rome Beauty. Among the citrus fruits, oranges, tangerines and lemons are cultivated, and a grapefruit with a darker and thinner skin than North American kinds. Grapes are the big crop around Mendoza, near Chile.

Lakes Like Switzerland.

The lake region of Argentina and Chile is a combination of the Swiss Alps and the western mountain-lake regions of the United States. In this area are innumerable small lakes, rivers and cascades surrounded by both forested and bare mountains, many with snow-capped peaks. Old trees rise 150 feet or more tall. Berry-laden bushes cover much of the lower mountain areas. The lakes are cut by jutting peninsulas and many islands. Near Bariloche and Llao-Llao, is an island called Isla Victoria, on which is located the forest experiment station of Argentina, where researchers are engaged in acclimatizing new species to the country. Clean-looking German and Swiss architecture prevails throughout most of this region. The houses are primarily of wood.

Rural Chile.

Traveling by little steamers over the small lakes and by car over the mountains, where snow is several feet deep along the roads in November, and by train through the less mountainous areas, one reaches Chile. Though it is cold and damp at this time of the year, the golden-rain trees and the national flower of Chile, a dainty vermilion-flowered shrub, bloom in profusion. Southern Chile is one of the rainiest parts of South America, and northern Chile one of the driest, but in between is a narrow strip bordered on one side by mountains and the other side by the Pacific ocean, of lush-looking grazing and crop land. Most of the farms are bordered by carefully

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Rural Chile is still a country of large estates, of landed aristocrats and landless tenants, though the growth of industry is fast changing this situation. Many of the rural estates are surrounded by high, well built mud walls as well as trees, and irrigation systems are dug following the walls in a single extensive system over the entire estate. Rivers fed by permanently snow-covered mountains provide ample water, and as the Andes are gently sloping, ordinary gravity canals can be used. The owner's hacienda is usually set in a grove of eucalyptus and surrounded by Mediterranean-type gardens. Far to the rear are the farm buildings and small homes of laborers. Most of the large estates are near Santiago, the largest covering 600 square miles. About one field in ten is used in any one year for growing grains, and the rest lie fallow or are planted for grazing.

Much of the land is devoted to vineyards. Chile's vermouth is well known, and its champagnes and other wines are excellent. In November, strawberries, which are whitish or pink rather than red, and cherimoya, a fruit that is a combination pineapple and pear, are to be en-

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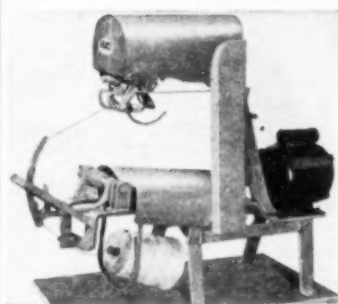
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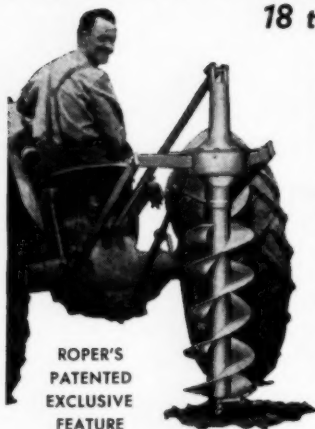
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joyed. In Chile, as in most of South America, farming methods are still quite primitive. Much of the work is done by hand, and teams of oxen are used to pull plows, and donkeys to carry produce.

Small rural properties have always existed in Chile and are becoming more numerous. Many are worked by tenant farmers. Their primitive houses are of mud, with mud floors and thatched roofs. Cooking is done outdoors, even in the winter. About two acres of land around these houses are used by the tenants as they desire, usually for growing vegetables, grains and flowers for their own use.

Santiago.

Santiago, the capital of Chile, is built on a wide plain, about 1,800 feet above sea level, between the lofty Andes and the less lofty Cuesta del Prado mountains. Santa Lucia, a rocky hill that was once the town citadel, is now a pleasure park that has been landscaped. The property was bought and landscaped and given to the city by one of its citizens who nearly went broke in so doing. Its pepper trees are one of its best features. The largest park in the city covers 201 acres, with a 7½-acre lake. The agricultural farm school occupies over 300 acres and contains a botanical garden and experiment station.

The capitol building is distinguished by its rows of columns and beautiful gardens. Many of the boulevards are tree-lined, and the main ones have wide paved malls down the center, often planted with trees and shrubs, or lined with flower-filled urns and broken by occasional large statues and monuments. How the South Americans do like statues!

The old, Spanish-style architecture prevails. Most is 1-story, made of sun-dried bricks covered with plaster or mud. The roofs are usually covered with tile or corrugated iron. The commercial and municipal buildings are of more elaborate European style or else are modern. Great iron and brass doors of beautiful design are common to the better commercial buildings and the larger city mansions at Santiago. The brass is always immaculately polished. The suburbs are similar to most others already described, except iron or wooden bars or elaborate grillwork covers the house windows. The walls are not so high in Chile as in other parts of South America; so one can see into the yards a little more.

The Chilean Riviera.

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CHICAGO HEIGHTS, ILL.

Chile's chief ports, and Vina del Mar, across the bay, one of the country's outstanding seaside resorts, often called Chile's Riviera. This resort is perhaps one of the most flower-planted towns on all of the west coast of South America. It is a city of great garden beauty. There are many formal gardens with topiary hedges, rare flowering plants and tiled pools. Even the simplest houses are overgrown with climbing roses and geraniums. The pink and scarlet geraniums are used as individual plants in gardens, in urns in front of the houses, in window boxes, trained on fences and walls to form hedges, and are planted over hillside areas like a ground cover. Plumbago hedges often separate gardens. White and yellow daisies also grow in profusion, covering big hillside areas, so that the roadsides are extremely colorful. What area has not been planted by man is covered with wild flowers. Wistaria and begonias are popular. And purple bougainvillea spilling over rooftops clashes wildly with the geraniums.

Coastal Desert.

After one leaves this Riviera section and takes the ship northward, debarking at various points to see the coastal land of northern Chile and southern Peru, one comes to the most barren-looking region imaginable. There is no area in the entire United States to which it is comparable. The soil is a dull brownish-gray color, and extremely dry, so that the entire area looks like dirty desert. The mountains that border the coastal strip are the same. The whole area can best be described as one of stupendous desolation.

At the nitrate port of Antofagasta, the only vegetation to be seen was a few varieties of palms planted in the city square and the flowering gardens, mostly geraniums, which bloomed in nearly every yard. There

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is not a single blade of grass of any kind in the whole town. The abundance of flowers here is truly remarkable, as the entire water supply for them is brought from the Andes, a couple of hundred miles distant. On the outskirts of the city are hundreds of foundations or half walls erected for buildings but never completed, as the builders have an ability for running out of money down there.

Along the narrow flat coastal strip there is a single highway, quite well paved compared to most South American rural roads. About a 2½-hour drive along this barren coastal region brings one to the port of Mejillones, where tin is brought from the mines for export. The desolation of this city is almost unimaginable, there being not a single flower or blade of grass, only a few scrubby trees or shrubs in an occasional yard. The ill-kept buildings make it look like a ghost town.

The coastal region to the south of Lima is also a barren desert that is broken from time to time with lomas, a dense growth of quick-flowering plants and grasses that appear when the garua, a heavy mist, covers the coast. There is little rain in this section, Lima averaging less than two inches a year, and for many years at a time there is actually no rainfall at all. The south winds that blow across the cold ocean water pick up moisture from it and then rise against the mountains, causing further cooling of the air. This produces clouds and fog only or a mist that soaks the ground, but rarely any rain. It is seldom that one sees clear blue skies and the sunshine in this region.

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The desert areas are broken by occasional oases, both valleys and flatland areas, and so agriculture is limited by both aridity and rugged soil surface. At regular intervals floods destroy the land and then an-

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other long period of aridity sets in, but life is adapted to the dryness and to the rare floods. There is little more than 1,000,000 acres of cultivated land along Peru's coastal region, all of which are irrigated. It might be possible to increase this through more irrigation, but at a high cost. There are about forty oasis areas close to the mountain fronts and few have enough water to supply their entire areas clear to the ocean front. According to the system in Peru, property owners upstream have the first right to the water, and in the dry years there is not sufficient volume to supply those downstream.

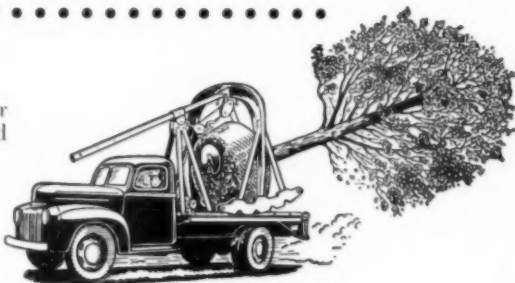
Growing in these oasis areas, one sees cotton, grapes, bananas and corn, and in the smaller plantings one often sees the corn growing in among the banana trees. Much more time and effort seem to have been expended on building walls and planting rows of trees around the fields than in building suitable houses for the workers, for many of them live in little more than thatched huts with walls of twigs or mud-covered twigs. Occasionally one will see a small field of flowers, such as larkspur, carnations, callas and roses, which are sold locally to the cut flower market. In the northern part of Chile and the southern part of Peru callas are almost as popular as the geraniums and roses, and one sees them in the yards of the relatively poor, often occupying a small strip on a rocky hillside. South of Lima the oasis areas are largely occupied by truck farms which supply fruit and vegetables to Lima and Callao, and farther to the south are the vineyards. Near Lima, too, are the excavated ruins of ancient Indian cities.

Lima, Ancient and Modern.

Lima, called the city of kings, is a city of ancient tradition, but still is the center of modern Peru, the land of the Incas and Spanish conquerors. Industrialization and rapid growth of population have brought about a decided contrast between the ancient and the modern. Located eight miles inland from its port, Callao, the city of Lima was selected by Pizarro in 1535 for his capital. It was laid out in the characteristic Spanish manner, a strictly rectangular street pattern around a central plaza. In most Peruvian towns the dimensions of the blocks, the width of the streets and the arrangement of the government buildings and church around the central plaza are all standardized, but the city of Lima was laid out in this

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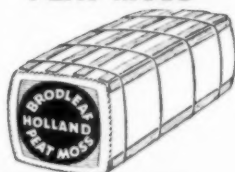
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manner long before this plan was
prescribed by law.

Much of the city's Spanish colonial architecture has been preserved through reconstruction. Most buildings are one to three stories tall. Because of frequent earthquakes light materials are used. Many are but cages of cane covered with plaster and given a frescoed imitation of stone. Even many of the big church towers are only wicker baskets covered with plaster. The flat roofs are often covered with sand or ashes to absorb the fog. And it is common to use these flat roofs as chicken yards; so one hears roosters crowing in the morning all over the city. The 2-story buildings usually have shops on the ground floor and living quarters above. The city mansions are generally two stories tall, too. One enters through a huge door into a colorfully tiled courtyard. Stairways climb to open galleries or Moorish balconies of blackened cedar on all four sides of the court. Stairs and balconies are lined with potted subtropical foliage plants and roses. The better homes have a tower, or mirador, on the roof. In the newer part of the city buildings are either mainly French Renaissance or modern.

Roses are popular at Lima, too, which was the home of Santa Rosa. There are a few tree-lined streets in the city and many in the suburbs. In the latter are often beautiful landscaped malls, many abloom with jacaranda in November. Large crotons, four to six feet tall, and huge clumps of geraniums are used as shrubs in the malls and in yards. In the newer suburbs walls are not so high as to hide the gardens and houses. In fact, the yards in front of some of the newest homes are completely unwallled. The buildings resemble small, 2-story, modern apartments with a drive down to the garage beneath. The yards are but small, shallow lawns with palm trees and a few other small plants, usually geraniums, but the wide malls down the center of the street beautify the landscape. Occasionally houses are covered with cascades of bougainvillea. The better suburban architecture is so varied one can find nearly every style.

Lima has a 30-acre botanical garden and the usual South American city squares with their formal plantings. One is octagonal, and each of the eight buildings that surround it is exactly like the other. The once-magnificent country house of Perrecholi, Lima's Madame DuBarry, is open to the public. Its gardens in the rear have been kept intact, and even

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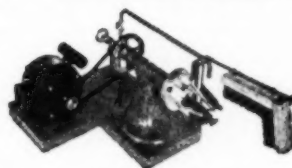
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the fig trees planted there for her by the viceroy are thriving. In the suburbs of Miraflores, once a huge hacienda, the old olive groves have been preserved. Out in the new development of Limatambo is the airport, whose buildings surpass North America's best. The entire approach is being landscaped, but so far mostly cannas have been planted.

Through the Panama Canal.

As one's ship goes through the locks of the Panama canal, one sees the city of Balboa and U. S. army post at the Pacific ocean side, the jungle-like terrain bordering the narrow isthmus and the twin cities of Cristobal and Colon at the Atlantic ocean side. Panama has an extremely hot, humid and rainy climate, so that the foliage is a lush green. Residents describe the seasons as rainy and rainier. Mangoes grow along the isthmus, and in the settled areas the scarlet blooms of the African tulip trees are everywhere.

Pirate's Fortress.

Once the lair of pirates and noted for its fifteenth century fortress is Cartagena, Colombia. The city is entirely walled in, and the buildings, nearly all of Spanish colonial design, are closely crowded along the narrow stone streets. The homes in the suburbs remind one of some of the boom-time residences built in the subdivisions of Miami, Fla. Some are in pastel shades, blue being common; others sport colorful tile trim; some are ultramodern. Those nearer the city proper have high walls or iron fences, while those farther out have only low fences or hedges. Bushes, literally trees, of poinsettias and huge crotons are the most outstanding plants seen in the yards.

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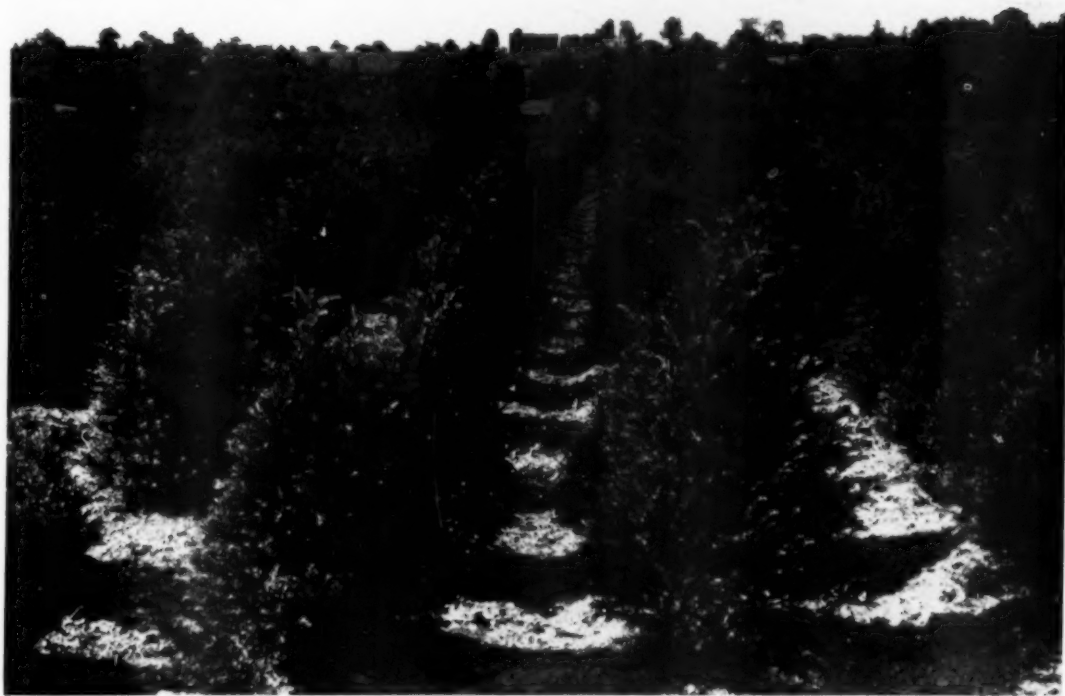
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